

## alpha Synuclein (Phospho-Ser129) Rabbit mAb

Catalog No: #13434

Package Size: #13434-1 50ul #13434-2 100ul

## Description

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| Product Name          | alpha Synuclein (Phospho-Ser129) Rabbit mAb                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Host Species          | Rabbit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Clonality             | Monoclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Clone No.             | JB22-44                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Purification          | ProA affinity purified                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Applications          | WB, ICC/IF, IHC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Species Reactivity    | Hu, Ms, Rt                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Immunogen Description | Synthetic phospho-peptide corresponding to residues surrounding Ser129 of human alpha Synuclein.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Conjugates            | Unconjugated                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Other Names           | Alpha synuclein antibody Alpha-synuclein antibody Alpha-synuclein, isoform NACP140 antibody alphaSYN antibody MGC105443 antibody MGC110988 antibody MGC127560 antibody MGC64356 antibody NACP antibody Non A beta component of AD amyloid antibody Non A4 component of amyloid antibody Non A4 component of amyloid precursor antibody Non-A beta component of AD amyloid antibody Non-A-beta component of alzheimers disease amyloid , precursor of antibody Non-A4 component of amyloid precursor antibody Non-A4 component of amyloid, precursor of antibody OTTHUMP00000218549 antibody OTTHUMP00000218551 antibody OTTHUMP00000218552 antibody OTTHUMP00000218553 antibody OTTHUMP00000218554 antibody PARK 1 antibody PARK 4 antibody PARK1 antibody PARK4 antibody Parkinson disease (autosomal dominant, Lewy body) 4 antibody Parkinson disease familial 1 antibody SNCA antibody Snca synuclein, alpha (non A4 component of amyloid precursor) antibody SYN antibody Synuclein alpha antibody Synuclein alpha 140 antibody Synuclein, alpha (non A4 component of amyloid precursor) antibody SYUA_HUMAN antibody |
| Accession No.         | Swiss-Prot#:P37840                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Calculated MW         | Predicted band size: 14 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| SDS-PAGE MW           | Observed band size: 18 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Formulation           | Rabbit IgG in 10mM phosphate buffered saline , pH 7.4, 150mM sodium chloride, 0.05% BSA, 0.02% sodium azide and 50% glycerol.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Storage               | Store at -20°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

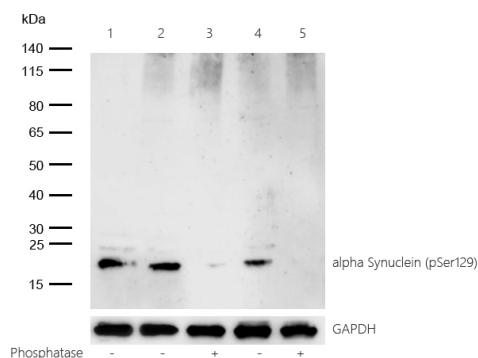
## Application Details

WB: 1:500-1:2000

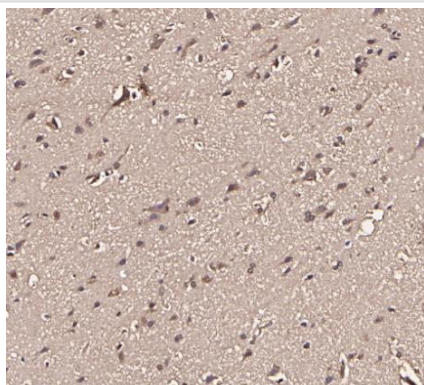
ICC/IF: 1:50-1:200

IHC: 1:50-1:200

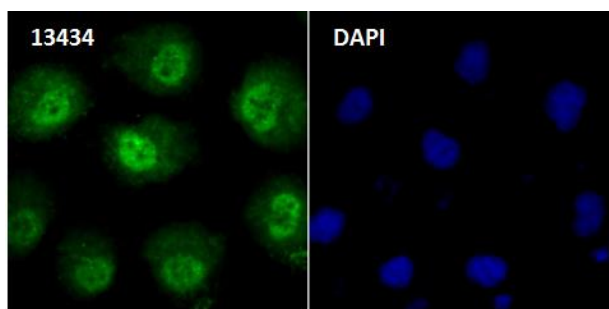
## Images



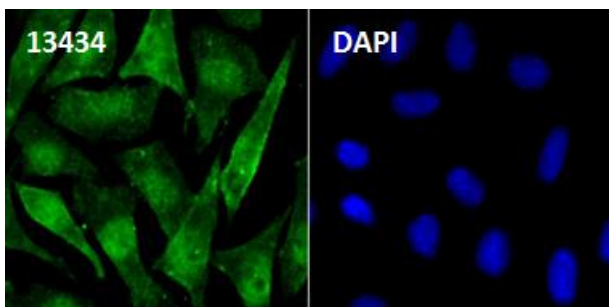
All lanes : alpha Synuclein (Phospho-Ser129) Rabbit mAb at 1/1k dilution  
 Lane 1 : Human fetal Brain lysates  
 Lane 2 : Mouse Brain lysates  
 Lane 3 : Mouse Brain lysates treated with Lambda Protein Phosphatase for 30min  
 Lane 4 : Rat Brain lysates  
 Lane 5 : Rat Brain lysates treated with Lambda Protein Phosphatase for 30min  
 Lysates/proteins at 20 µg per lane.  
 Secondary All lanes : Goat Anti-Rabbit IgG H&L (HRP) at 1/20000 dilution  
 Predicted band size: 14 kDa  
 Observed band size: 18 kDa  
 Exposure time: 9 seconds



Formalin-fixed, paraffin-embedded human brain tissue stained for alpha Synuclein (Phospho-S129) using 13434 at 1/100 dilution in immunohistochemical analysis. The picture on the right is blocked with the phospho peptide.



Immunocytochemistry/ Immunofluorescence alpha Synuclein (Phospho-S129) antibody (13434)  
 ICC/IF staining of alpha Synuclein (Phospho-S129) in HUVEC cells. Cells were fixed with 4% Paraformaldehyde permeabilized with 0.1% Triton X-100. Samples were incubated with 13434 at a working dilution of 1/100. The secondary antibody was Alexa FluorB 488 goat anti rabbit, used at a dilution of 1/500. Nuclei were counterstained with DAPI.



Immunocytochemistry/ Immunofluorescence alpha Synuclein (Phospho-S129) antibody (13434)  
 ICC/IF staining of alpha Synuclein (Phospho-S129) in SH-SY-5Y cells. Cells were fixed with 4% Paraformaldehyde permeabilized with 0.1% Triton X-100. Samples were incubated with 13434 at a working dilution of 1/100. The secondary antibody was Alexa FluorB 488 goat anti rabbit, used at a dilution of 1/500. Nuclei were counterstained with DAPI.

## Background

The synuclein family members, including  $\alpha$ -synuclein (also designated NACP for non- $\beta$ -Amyloid component) and  $\beta$ -synuclein, are predominantly expressed in the brain and are speculated to be involved in synaptic regulation and neuronal plasticity.  $\alpha$ -synuclein is localized to neuronal cell bodies and synapses.  $\alpha$ -synuclein was first identified as a component of Alzheimer's disease amyloid plaques. Abnormal platelet function in Alzheimer's disease has been demonstrated. During megakaryocytic differentiation  $\alpha$ -synuclein has been found to be upregulated, while  $\beta$ -synuclein is downregulated, indicating that coordinate expression of synucleins may be important during hematopoietic cell differentiation. A mutant form of  $\alpha$ -synuclein has been found in patients with early onset Parkinson's disease.

## References

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Note: This product is for in vitro research use only and is not intended for use in humans or animals.