

GAP43 Rabbit mAb

Catalog No: #49013

Package Size: #49013-1 50ul #49013-2 100ul



SAB[®]
Signalway Antibody

Orders: order@signalwayantibody.com
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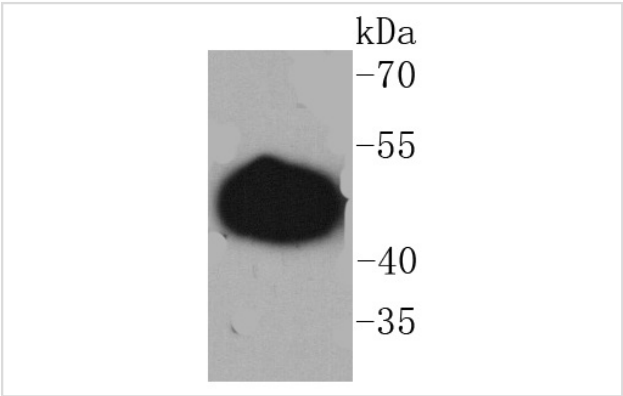
Description

Product Name	GAP43 Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal
Clone No.	SC60-06
Purification	ProA affinity purified
Applications	WB, ICC/IF, IHC, IP, FC
Species Reactivity	Hu, Ms, Rt
Immunogen Description	recombinant protein
Conjugates	Unconjugated
Other Names	Axonal membrane protein GAP 43 antibody Axonal membrane protein GAP-43 antibody B 50 antibody Calmodulin binding protein P 57 antibody F1 antibody GAP 43 antibody GAP43 antibody Growth Associated Protein 43 antibody Growth-associated protein 43 antibody Nerve Growth Related Peptide antibody Nerve growth related peptide GAP43 antibody NEUM_HUMAN antibody Neural phosphoprotein B 50 antibody Neural phosphoprotein B-50 antibody Neuromodulin antibody Neuron growth associated protein 43 antibody PP46 antibody Protein F1 antibody QtrA-11580 antibody QtrA-13071 antibody
Accession No.	Swiss-Prot#:P17677
Calculated MW	48 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

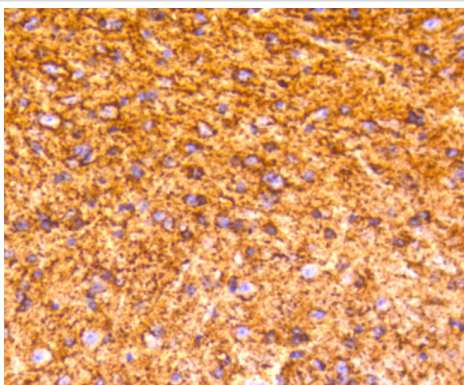
Application Details

WB: 1:2,000-1:5,000IHC: 1:100-1:500 ICC: 1:100-1:500FC: 1:50-1:100

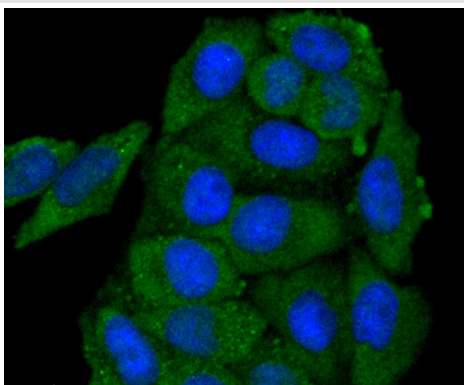
Images



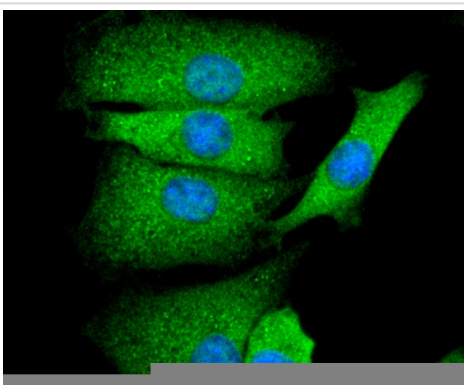
Western blot analysis of GAP43 on mouse brain lysates using anti-GAP43 antibody at 1/1,000 dilution.



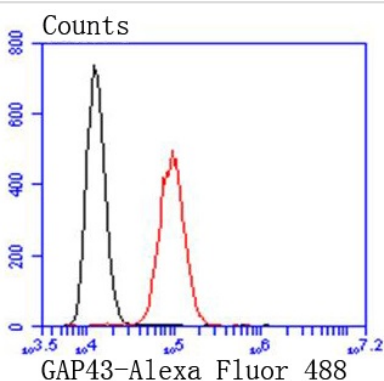
Immunohistochemical analysis of paraffin-embedded mouse brain tissue using anti-GAP43 antibody. Counter stained with hematoxylin.



ICC staining GAP43 in HeLa cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining GAP43 in SHG-44 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



Flow cytometric analysis of SH-SY-5y cells with GAP43 antibody at 1/50 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black). Alexa Fluor 488-conjugated goat anti rabbit IgG was used as the secondary antibody.

Background

GAP-43 (growth associated protein 43, B-50, PP46, calmodulin-binding protein P-57, neuromodulin, neuron growth-associated protein 43, protein F1) is a crucial component for regenerative response in the nervous system. It is present at high levels in neuronal growth cones during development and axonal regeneration. GAP-43 is normally produced by neurons during developmental growth and axonal regeneration, but it is also expressed in specific regions of the normal adult nervous system. The neuron-specific Elav/Hu family member, HuD, interacts with and stabilizes GAP-43 mRNA in developing neurons and leads to increased levels of GAP-43 protein. Heterozygous GAP-43 knockout mice with GAP-43 levels reduced by one-half display significant memory impairments in cued conditioning or on tests of nociceptive or auditory perception.

References

Published Papers

el at., Maf1 is an intrinsic suppressor against spontaneous neural repair and functional recovery after ischemic stroke. In J Adv Res on 2022 Nov 17 by Chi Kwan Tsang, Qiongjie Mi, et al.. PMID:36402285, , (2022)

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