Product Datasheet

Cdk5 Rabbit mAb

Catalog No: #48634

Package Size: #48634-1 50ul #48634-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

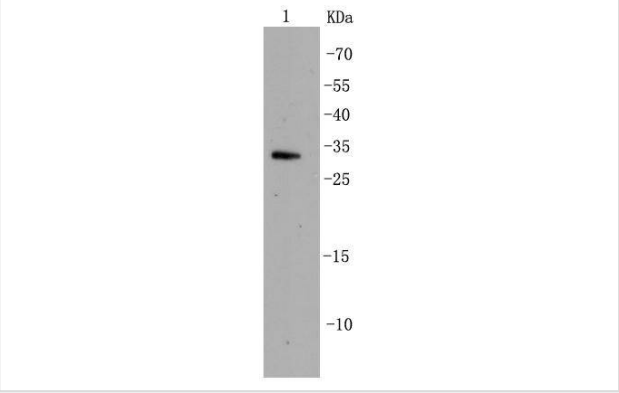
Description

Product Name	Cdk5 Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	SR39-01
Purification	ProA affinity purified
Applications	WB, IHC, IP, FC
Species Reactivity	Hu, Ms, Rt
Immunogen Description	recombinant protein
Other Names	Cdk 5 antibody Cdk5 antibody CDK5_HUMAN antibody Cell division protein kinase 5 antibody Crk6 antibody Cyclin dependent kinase 5 antibody Cyclin-dependent kinase 5 antibody Protein kinase CDK5 splicing antibody PSSALRE antibody Serine threonine protein kinase PSSALRE antibody Serine/threonine-protein kinase PSSALRE antibody Tau protein kinase II catalytic subunit antibody TPKII catalytic subunit antibody
Accession No.	Swiss-Prot#:Q00535
Uniprot	Q00535
GeneID	1020;
Calculated MW	33 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

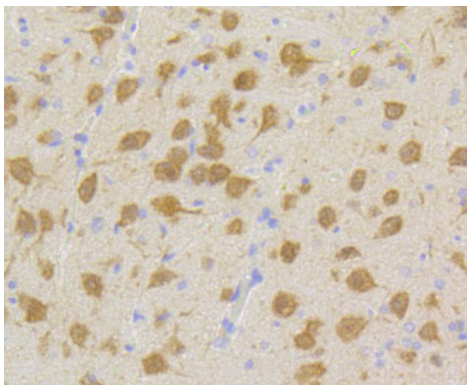
Application Details

WB: 1:500-1:1,000IHC:1:50-1:200 FC: 1:50-1:100

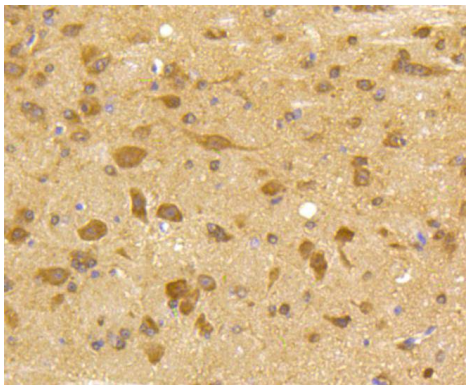
Images



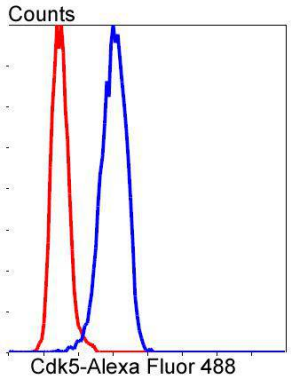
Western blot analysis of Cdk5 on Hela cell lysates using anti-Cdk5 antibody at 1/500 dilution.



Immunohistochemical analysis of paraffin-embedded rat brain tissue using anti-Cdk5 antibody. Counter stained with hematoxylin.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue using anti-Cdk5 antibody. Counter stained with hematoxylin.



Flow cytometric analysis of Hela cells with Cdk5 antibody at 1/50 dilution (blue) compared with an unlabelled control (cells without incubation with primary antibody; red). Alexa Fluor 488-conjugated goat anti rabbit IgG was used as the secondary antibody.

Background

Cell cycle progression is controlled in part by a family of cyclin proteins and cyclin dependent kinases (Cdks). Cdk proteins work in concert with the cyclins to phosphorylate key substrates involved in each phase of cell cycle progression. Another family of proteins, Cdk inhibitors, also plays a role in regulating cell cycle by binding to cyclin-Cdk complexes and modulating their activity. Several Cdk proteins have been identified, including Cdk2-Cdk8, PCTAIRE-1C3, PITALRE and PITSLRE. Cdk5 is thought to be involved in the G1-S transition of the cell cycle and is highly expressed in mature neurons. Activity of Cdk5 increases significantly during neuronal differentiation. Cdk5 has been postulated to be a neurofilament or tau protein kinase, based on its ability to phosphorylate these proteins in vitro.

References

Note: This product is for in vitro research use only