Product Datasheet

CDK5 Antibody

Catalog No: #31054

Package Size: #31054-1 50ul #31054-2 100ul

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

Description

Product Name	CDK5 Antibody
Host Species	Rabbit
Clonality	Polyclonal
Applications	ELISA WB IHC
Species Reactivity	Hu Ms
Specificity	The antibody detects endogenous level of total CDK5 protein.
Immunogen Type	Recombinant Protein
Immunogen Description	Full length fusion protein
Target Name	CDK5
Other Names	cyclin-dependent kinase 5, PSSALRE
Accession No.	Swiss-Prot:Q00535Gene ID:1020;
Uniprot	Q00535
GeneID	1020;
Formulation	Rabbit IgG in pH7.4 PBS, 0.05% NaN3, 40% Glycerol.
Storage	Store at -20°C/1 year

Application Details

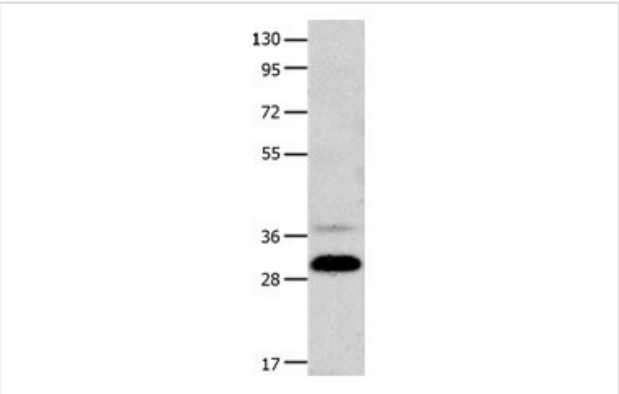
Predicted MW: 33kd

ELISA: 1:1000-1:2000

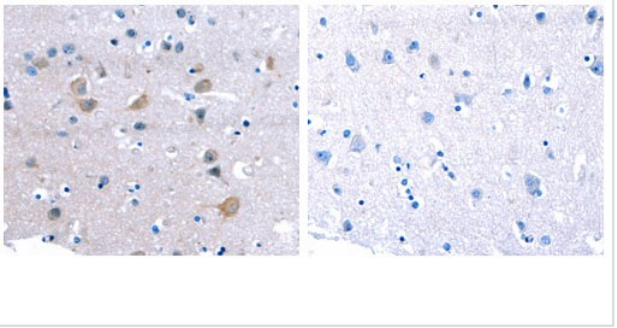
Western blotting: 1:200-1:1000

Immunohistochemistry: 1:10-1:50

Images



Gel: 12%+10%SDS-PAGE
Lysate: 30 µg Hela cell lysate
Primary antibody: 1/400 dilution
Secondary antibody: Goat anti Rabbit IgG - H&L (HRP) at 1/10000 dilution
Exposure time: 1 minute



The image on the left is immunohistochemistry of paraffin-embedded Human brain tissue using 31054(CDK5 Antibody) at dilution 1/10, on the right is treated with the fusion protein.

Background

Cell division protein kinase 5?is an?enzyme?that in humans is encoded by the?CDK5?gene.?The protein encoded by this gene is part of the?cyclin-dependent kinase?family. CDK5 is required for proper development of the brain and to be activated, CDK5 must associate with CDK5R1 or CDK5R2. Cdk5 is involved in the processes of neuronal maturation and migration, phosphorylating the key intracellular adaptor of the reelin signaling chain. Experiments performed on mice lacking p35, a necessary activator of cdk5 in early brain development, showed that the normal layering of neurons was reversed in the cortex. This disrupted lamination again implicated cdk5 in neuronal migration and plasticity. Cdk5 is also involved in the regulation of synaptic vesicle exocytosis via phosphorylation of munc-18.

Note: This product is for in vitro research use only