

Anti-cdk5 (RABBIT) Antibody - 100-401-163

Code: 100-401-163

Size: 100 µL

Product Description: Anti-cdk5 (RABBIT) Antibody - 100-401-163

Concentration: 85 mg/mL by Refractometry

PhysicalState: Liquid (sterile filtered)

Label	Unconjugated
Host	Rabbit
Gene Name	CDK5
Species Reactivity	human, rat, mouse
Buffer	None
Stabilizer	None
Preservative	0.01% (w/v) Sodium Azide
Storage Condition	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Synonyms	rabbit anti-Cdk5 antibody, cdk, Cell division protein kinase 5 antibody, Crk6 antibody, rabbit anti-Cyclin dependent kinase 5 antibody, Protein kinase CDK5 splicing antibody, PSSALRE antibody, Serine threonine protein kinase PSSALRE antibody
Application Note	Cdk5 antibody was assayed by immunoblot and found to be reactive against cdk5 (p31) at a dilution of 1:500 followed by reaction with Peroxidase conjugated Affinity Purified anti-Rabbit IgG [H&L] (Goat) code #611-1302. Anti-cdk5 (p31) is suitable for the detection by immunoblot of human, rat and mouse cdk5 (p31). Suggested dilutions for ELISA are 1:500 to 1:2000.
Background	The protein encoded by the gene CDK5 is involved in the control of the cell cycle and interacts with D1 and D3-type G1 cyclins. CDK5 belongs to the protein kinase superfamily, the CMGC Ser/Thr protein kinase family and the CDC2/CDKX subfamily. CDK5 phosphorylates histone H1, tau, MAP2 and NF-H and NF-M and also interacts with p35 which activates the kinase. CDK5 forms a heterodimer, where CDK5 is the catalytic subunit and p35 is the regulatory subunit. CDK5 is also found in a trimolecular complex with CABLES1 and ABL1. CDK5 is a cytoplasmic protein.
Purity And Specificity	Anti-cdk5 was prepared from monospecific antiserum by delipidation and defibrination. Antiserum will specifically react with a 35 kDa cdk5 (p31) protein from human, rat and mouse tissue. No reaction was observed against other related cyclin dependent kinases. Cross reactivity with cdk5 (p31) from other species may also occur.
Assay Dilutions	User Optimized
ELISA	1:5,000 - 1:20,000
Western Blot	1:500 - 1:5,000
Immunohistochemistry	Yes
Other Assays	User Optimized
Expiration	Expiration date is one (1) year from date of opening.
Immunogen	cdk5 (p31) peptide corresponding to the C-terminus of the human protein conjugated to Keyhole Limpet Hemocyanin (KLH).
General Reference	Meyerson, M., Enders, G.H., Su, L.K., Gorka, C., Nelson, C., Harlow, E. and Tsai, L.H. (1992) A family of cdc2-related protein kinases. EMBO J. 11; 2909-2917. Hellmich, M.R., Pant, H.C., Wada, E. and Battey, J.F. (1992) Neuronal cdc2-like kinase: a cdc2-related protein kinase with predominantly neuronal expression. PNAS USA 89; 10867-10871.

Related Products

100-401-153	Anti-Cyclin D1 (RABBIT) Antibody - 100-401-153
100-401-160	Anti-cdc2 (p34) (RABBIT) Antibody - 100-401-160

100-401-161 Anti-cdk2 (RABBIT) Antibody - 100-401-161
100-401-167 Anti-cdk9 (PITALRE) (RABBIT) Antibody - 100-401-167

Related Links

NCBI - CAG33322.1

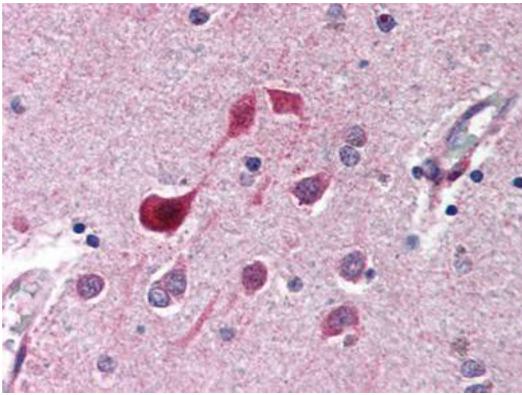
<http://www.ncbi.nlm.nih.gov/protein/CAG33322.1>

UniProtKB - Q6IAW3 <http://www.uniprot.org/uniprot/Q6IAW3>

GeneID - 1020

Images

1 Rockland's anti-CDK5 antibody was diluted 1:500 to detect CDK5 in human brain cortex tissue. Tissue was formalin fixed and paraffin embedded. No pre-treatment of sample was required. The image shows the localization of antibody as the precipitated red signal, with a hematoxylin purple nuclear counter stain.



Disclaimer

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