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Datasheet for 600-401-ME9

p35 Antibody

Overview

Description:	Anti-p35/Cdk5 (RABBIT) Antibody - 600-401-ME9
Item No.:	600-401-ME9
Size:	100 µg
Applications:	ELISA, IHC, WB
Reactivity:	Human, Mouse
Host Species:	Rabbit

Product Details

Background:	p35, is a neuron specific activator of CDK5. Also known as Cdk5r1 (Cyclin-dependent kinase 5 activator 1), the complex p35/CDK5 is required for neurite outgrowth and cortical lamination. It is involved in dendritic spine morphogenesis by mediating the EFNA1-EPHA4 signaling. Activator of TPKII. The complex p35/CDK5 participates in the regulation of the circadian clock by modulating the function of CLOCK protein: phosphorylates CLOCK at Thr-451 and Thr-461 and regulates the transcriptional activity of the CLOCK-ARNTL/BMAL1 heterodimer in association with altered stability and subcellular distribution. Diseases associated with CDK5R1 include Alzheimer Disease and Non-Syndromic Intellectual Disability. Anti-p35/Cdk5 Antibody is useful for researchers interested in Alzheimer researcher, protein kinase binding, Neuroscience Research, and Cancer Research.
Synonyms:	Rabbit Anti-Cyclin Dependent Kinase 5 Regulatory Subunit 1 Antibody, Rabbit Anti-Cyclin-dependent kinase 5 activator 1 Antibody, Rabbit Anti-p35 Antibody, TPKII Regulatory Subunit, CDK5 Activator 1, CDK5R, NCK5A, Cyclin-Dependent Kinase 5, Regulatory Subunit 1 (P35), Cyclin-Dependent Kinase 5 Regulatory Subunit 1, Cyclin-Dependent Kinase 5 Activator 1, Tau Protein Kinase II 23kDa Subunit, Regulatory Partner For CDK5 Kinase, Neuronal CDK5 Activator, P35nck5a, CDK5P35, P23, P25, P35
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	Cdk5r1

Reactivity:	Human, Mouse
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-p35/Cdk5 antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to a near N-terminal portion of mouse p35/Cdk5 conjugated to Keyhole Limpet Hemocyanin (KLH).
Purity/Specificity:	This affinity purified antibody is directed against mouse p35/Cdk5. This product was affinity purified from monospecific antiserum by immunoaffinity purification. A BLAST analysis was used to suggest cross-reactivity with the antigen based on 100% homology with the immunizing sequence to rat, human, bovine, and Spermophilus citellus.
Relevant Links:	• UniProtKB - P61809 • NCBI - NP_034001.1 • GeneID - 12569

Application Details

Tested Applications:	ELISA, IHC, WB
Application Note:	Anti-p35/Cdk5 Antibody has been tested in ELISA, WB, and IHC. Expect bands ~34 kDa in western blot using appropriate tissues and lysates. Positive control used: mouse brain lysate in WB and IHC. This antibody is suitable in IF.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:10,000 - 1:50,000
IHC:	1:100
WB:	1:1000

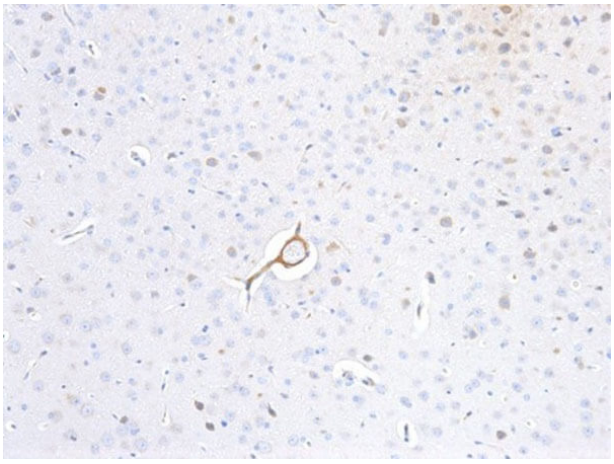
Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	0.96 mg/ml by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	None

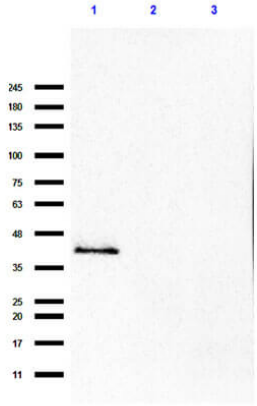
Shipping & Handling

Shipping Condition:	Dry Ice
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.
Expiration:	Expiration date is one (1) year from date of receipt.

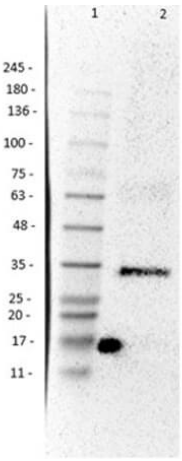
Images



Immunohistochemistry
Immunohistochemistry of Rabbit Anti-p35 Antibody. Tissue: Mouse Brain. Fixative: none. Antigen Retrieval: HIER. Primary Antibody: Anti-p35/Cdk5 Antibody at 1:100. Secondary Antibody: Ready-to-Use Anti-Rabbit. Counterstain: Hematoxylin. Results: p35 developed a strong nuclear and membranous staining of neurons and neurophil in brain tissue.



Western Blot
Western Blot of Rabbit Anti-p35/Cdk5 Antibody. Lane 1: Human CDK5 overexpressing HEK293T lysate, C-terminal DDK tag (10µg) [+]. Lane 2: Human CDK5 empty vector HEK293T lysate (10µg) [-]. Lane 3: NIH-3T3 lysate (p/n W10-000-358) (35µg) [-]. Primary Antibody: Anti-p35/Cdk5 at 1:1000 overnight at RT. Secondary Antibody: Goat Anti-Rabbit HRP (p/n 611-103-122) at 1:70,000 for 30 minutes at RT. Block: BlockOut Buffer (p/n MB-073). Predicted MW: ~34-40kDa overexpressing. Observed MW: ~40kDa. Exposure: 30 sec.



Western Blot

Western Blot of Rabbit Anti-p35/Cdk5 Antibody. Lane 1: Mouse brain Lysate (p/n W10-000-T004) (35µg) [+]. Primary Antibody: Anti-p35/Cdk5 at 1:1000 overnight at RT. Secondary Antibody: Donkey Anti-Rabbit HRP (p/n 611-703-127) at 1:70,000 for 30 minutes at RT. Block: BlockOut Buffer (p/n MB-073). Predicted MW: ~34kDa. Observed MW: ~34kDa. Exposure: 10 sec.

Disclaimer

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