Datasheet for ABIN6138319

anti-CDK5 antibody (AA 1-292)

5 Images

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Overview

Quantity:	100 µL
Target:	CDK5
Binding Specificity:	AA 1-292
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CDK5 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunoprecipitation (IP)

Product Details

Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 1-292 of human CDK5 (NP_004926.1).
Sequence:	MQKYEKLEKI GEGTYGTVFK AKNRETHEIV ALKRVRLDDD DEGVPSSALR EICLLKELKH KNIVRLHDVL HSDKKLTLVF EFCDQDLKKY FDSCNGDLDP EIVKSFLFQL LKGLGFCHSR NVLHRDLKPQ NLLINRNGEL KLADFGLARA FGIPVRCYSA EVVTLWYRPP DVLFGAKLYS TSIDMWSAGC IFAELANAGR PLFPGNDVDD QLKRIFRLLG TPTEEQWPSM TKLPDYKPYP MYPATTSLVN VVPKLNATGR DLLQNLLKCN PVQRISAEEA LQHPYFSDFC PP
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Polyclonal Antibodies
Purification:	Affinity purification

Target Details

Target:	CDK5
Alternative Name:	CDK5 (CDK5 Products)
Background:	This gene encodes a proline-directed serine/threonine kinase that is a member of the cyclin-dependent kinase family of proteins. Unlike other members of the family, the protein encoded by this gene does not directly control cell cycle regulation. Instead the protein, which is predominantly expressed at high levels in mammalian postmitotic central nervous system neurons, functions in diverse processes such as synaptic plasticity and neuronal migration through phosphorylation of proteins required for cytoskeletal organization, endocytosis and exocytosis, and apoptosis. In humans, an allelic variant of the gene that results in undetectable levels of the protein has been associated with lethal autosomal recessive lissencephaly-7. Alternative splicing results in multiple transcript variants.,CDK5,LIS7,PSSALRE,Cancer,Signal Transduction,G protein signaling,Kinase,Serine/threonine kinases,Cell Biology & Developmental Biology,Apoptosis,Cell Cycle,Endocrine & Metabolism,Endocrine and metabolic diseases,Obesity,Immunology & Inflammation,Cytokines,Neuroscience,Neurodegenerative Diseases,Amyloid Plaque and Neurofibrillary Tangle Formation in Alzheimer's Disease,Dopamine Signaling in Parkinson's Disease,Neurodegenerative Diseases Markers,CDK5
Molecular Weight:	29 kDa/33 kDa
Gene ID:	1020
UniProt:	Q00535
Pathways:	Cell Division Cycle, Regulation of Muscle Cell Differentiation, Synaptic Membrane, Regulation of Cell Size, Skeletal Muscle Fiber Development, Synaptic Vesicle Exocytosis

Application Details

Application Notes:	WB,1:500 - 1:2000,IF,1:10 - 1:100,IP,1:50 - 1:200
Comment:	HIGH QUALITY
Restrictions:	For Research Use only

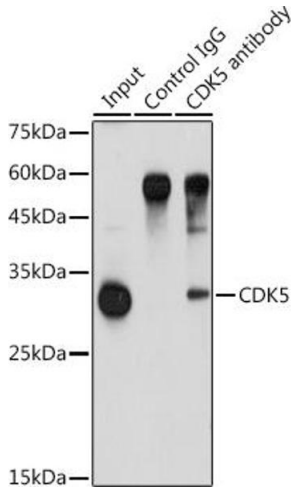
Handling

Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.
Preservative:	Sodium azide

Handling

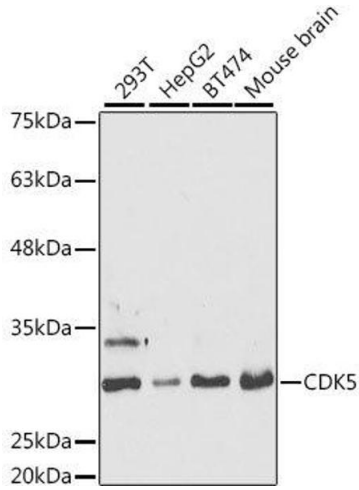
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.

Images



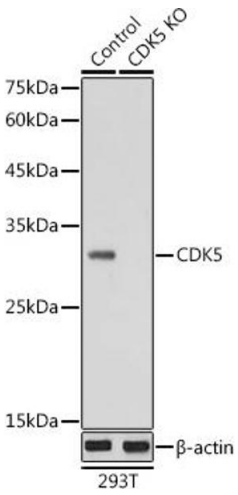
Immunoprecipitation

Image 1. Immunoprecipitation analysis of 900 µg extracts of A-549 cells using 3 µg CDK5 antibody (ABIN6129236, ABIN6138319, ABIN6138320 and ABIN6221397). Western blot was performed from the immunoprecipitate using CDK5 antibody (ABIN6129236, ABIN6138319, ABIN6138320 and ABIN6221397) at a dilition of 1:1000.



Western Blotting

Image 2. Western blot analysis of extracts of various cell lines, using CDK5 antibody.



Western Blotting

Image 3. Western blot analysis of extracts from normal (control) and CDK5 knockout (KO) 293T cells, using CDK5 antibody (ABIN6129236, ABIN6138319, ABIN6138320 and ABIN6221397) at 1:1000 dilution.Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution.Lysates/proteins: 25 µg per lane.Blocking buffer: 3 % nonfat dry milk in TBST.Detection: ECL Basic Kit (RM00020).Exposure time: 1s.

Please check the product details page for more images. Overall 5 images are available for ABIN6138319.