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CDK11 Rabbit pAb

Catalog # AP99778

Product Information

Reactivity	Human
Predicted	Rat, Pig, Mouse, Rabbit, Dog, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	93 KDa
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human CDK11
Epitope Specificity	21-120/795
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the protein kinase superfamily. CMGC Ser/Thr protein kinase family. CDC2/CDKX subfamily. Contains 1 protein kinase domain.
SUBUNIT	The cleaved p110 isoform, p110C, binds to the serine/threonine kinase PAK1 and RANBP9. p110C interacts with RNPS1. The p58 isoform but not the p110 isoforms or p110C interacts with CCND3. The p110 isoforms are found in large molecular weight complexes containing CCNL1 and SFRS7.
Post-translational modifications	During apoptosis, induced by Fas or tumor necrosis factor, specific CKD11 p110 isoforms are cleaved by caspases to produce a protein (p110C) that contains the C-terminal kinase domain of the CDK11 proteins. Phosphorylation at Ser-115 creates a binding site for 14-3-3 proteins. p110C can be autophosphorylated.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Summary: This gene encodes a member of the p34Cdc2 protein kinase family. p34Cdc2 kinase family members are known to be essential for eukaryotic cell cycle control. This gene is in close proximity to CDC2L2, a nearly identical gene in the same chromosomal region. The gene loci including this gene, CDC2L2, as well as metalloprotease MMP21/22, consist of two identical, tandemly linked genomic regions which are thought to be a part of the larger region that has been duplicated. This gene and CDC2L2 were shown to be deleted or altered frequently in neuroblastoma with amplified MYCN genes. The protein kinase encoded by this gene could be cleaved by caspases and was demonstrated to play roles in cell apoptosis. Several alternatively spliced variants of this gene have been reported. [provided by RefSeq, Jul 2008].

Additional Information

Gene ID	984
Other Names	CDC2L1; CDK11; CDK11-p110; CDK11-p46; CDK11-p58; CLK-1; PITSLREA; PK58; p58; p58CDC2L1; p58CLK-1; cyclin dependent kinase 11B; cell division cycle 2-like 1 (PITSLRE proteins)

Dilution	ICC/IF=1:50-200
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Name	CDK11 Rabbit pAb
Function	Appears to play multiple roles in cell cycle progression, cytokinesis and apoptosis. The p110 isoforms have been suggested to be involved in pre-mRNA splicing, potentially by phosphorylating the splicing protein SFRS7. The p58 isoform may act as a negative regulator of normal cell cycle progression.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.