

PCP4 Rabbit pAb

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Catalog # AP54455

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	P48539
Reactivity	Rat, Mouse
Predicted	Human, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	6791
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human PCP4
Epitope Specificity	21-62/62
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	PCP-4 is a calmodulin (CaM) regulatory protein that is highly expressed in neuronal cells. Through its IQ motif, PCP-4 mediates both the calcium-dependent binding properties of CaM and the rates of association and dissociation of calcium from the C-terminal domain of CaM. The IQ motif contains a serine residue which can be phosphorylated by all isoforms of protein kinase C (PKC). PCP-4 is implicated in uterine leiomyomas, as well as in neurodegenerative disorders such as Alzheimer's disease and Huntington's disease. Additionally, overexpression of PCP-4 is thought to play a role in cerebellar hypoplasia, a key feature of Down syndrome.

Additional Information

Gene ID	5121
Other Names	Calmodulin regulator protein PCP4, Brain-specific polypeptide PEP-19, Purkinje cell protein 4 {ECO:0000312 HGNC:HGNC:8742}, PCP4 {ECO:0000303 PubMed:8914602, ECO:0000312 HGNC:HGNC:8742}
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:500 0-10000
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.

Protein Information

Name	PCP4 {ECO:0000303 PubMed:8914602, ECO:0000312 HGNC:HGNC:8742}
Function	Functions as a modulator of calcium-binding by calmodulin. Thereby, regulates calmodulin activity and the different processes it controls (PubMed: 19106096 , PubMed: 23204517 , PubMed: 27876793). For instance, may play a role in neuronal differentiation through activation of calmodulin-dependent kinase signaling pathways (PubMed: 21491429).

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