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Alpha chimerin Rabbit pAb

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Catalog # AP54538

Product Information

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	P15882
Predicted	Human, Mouse, Rat, Dog, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	53172
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human Alpha-chimerin
Epitope Specificity	151-250/459
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Contains 1 phorbol-ester/DAG-type zinc finger. Contains 1 Rho-GAP domain. Contains 1 SH2 domain.
SUBUNIT	Interacts with EPHA4; effector of EPHA4 in axon guidance linking EPHA4 activation to RAC1 regulation
DISEASE	Defects in CHN1 are the cause of Duane retraction syndrome type 2 (DURS2) [MIM:604356]. Duane retraction syndrome is a congenital eye movement disorder characterized by a failure of cranial nerve VI (the abducens nerve) to develop normally, resulting in restriction or absence of abduction, adduction, or both, and narrowing of the palpebral fissure and retraction of the globe on attempted adduction. Undiagnosed in children, it can lead to amblyopia, a permanent uncorrectable loss of vision.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	This gene encodes GTPase-activating protein for ras-related p21-rac and a phorbol ester receptor. It is predominantly expressed in neurons, and plays an important role in neuronal signal-transduction mechanisms. Mutations in this gene are associated with Duane's retraction syndrome 2 (DURS2). Alternatively spliced transcript variants encoding different isoforms have been described for this gene. [provided by RefSeq, Apr 2011]

Additional Information

Gene ID	1123
Other Names	N-chimaerin, A-chimaerin, Alpha-chimerin, N-chimerin, NC, Rho GTPase-activating protein 2, CHN1, ARHGAP2, CHN
Target/Specificity	In neurons in brain regions that are involved in learning and memory processes.

Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:5000-10000
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	CHN1
Synonyms	ARHGAP2, CHN
Function	GTPase-activating protein for p21-rac and a phorbol ester receptor. Involved in the assembly of neuronal locomotor circuits as a direct effector of EPHA4 in axon guidance.
Tissue Location	In neurons in brain regions that are involved in learning and memory processes

Background

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