

Rabbit anti-Human CACNA1A Polyclonal Antibody | anti-CACNA1A antibody

CACNA1A Antibody (Center)

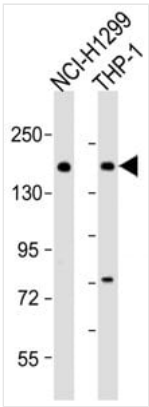
CATALOG # AAA290580	HOST Rabbit	REACTIVITY Human	APPLICATIONS ELISA, Western Blot
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PRODUCT SYNONYMS

CACNA1A; Polyclonal Antibody; CACNA1A Antibody (Center); Purified Rabbit Polyclonal Antibody (Pab); Voltage-dependent P/Q-type calcium channel subunit alpha-1A; Brain calcium channel I; BI; Calcium channel; L type; alpha-1 polypeptide isoform 4; Voltage-gated calcium channel subunit alpha Cav21; CACH4; CACN3; CACNL1A4; anti-CACNA1A antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This CACNA1A antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 898-932 amino acids from the Central region of human CACNA1A.
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Sequence Length	2266
Applicable Applications for anti-CACNA1A antibody	ELISA, WB (Western Blot)
Cellular Location	Cell membrane; Multi-pass membrane protein
Tissue Location	Brain specific; mainly found in cerebellum, cerebral cortex, thalamus and hypothalamus. Expressed in the small cell lung carcinoma cell line SCC-9. No expression in heart, kidney, liver or muscle. Purkinje cells contain predominantly P- type VSCC, the Q-type being a prominent calcium current in cerebellar granule cells.
Function	Voltage-sensitive calcium channels (VSCC) mediate the entry of calcium ions into excitable cells and are also involved in a variety of calcium-dependent processes, including muscle contraction, hormone or neurotransmitter release, gene expression, cell motility, cell division and cell death. The isoform alpha-1A gives rise to P and/or Q-type calcium currents. P/Q-type calcium channels belong to the 'high-voltage activated' (HVA) group and are specifically blocked by the spider omega-agatoxin-IVA (AC P54282) (By similarity). They are however insensitive to dihydropyridines (DHP).
Preparation and Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.



WB (Western Blot)
All lanes : Anti-CACNA1A Antibody (Center) at 1:2000 dilution
Lane 1: NCI-H1299 whole cell lysate
Lane 2: THP-1 whole cell lysate
Lysates/proteins at 20 ug per lane.
Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution.
Predicted band size : 282 kDa
Blocking/Dilution buffer: 5% NFDM/TBST.

ADDITIONAL INFORMATION

Related Product Information for anti-CACNA1A antibody	Voltage-sensitive calcium channels (VSCC) mediate the entry of calcium ions into excitable cells and are also involved in a variety of calcium-dependent processes, including muscle contraction, hormone or neurotransmitter release, gene expression, cell motility, cell division and cell death. The isoform alpha-1A gives rise to P and/or Q-type calcium currents. P/Q-type calcium channels belong to the 'high-voltage activated' (HVA) group and are blocked by the funnel toxin (Ftx) and by the omega-agatoxin- IVA (omega-Aga-IVA). They are however insensitive to dihydropyridines (DHP), and omega-conotoxin-GVIA (omega-CTx-GVIA).
Product Categories/Family for anti-CACNA1A antibody	Cancer; Metabolism; Neuroscience
References	Hans M.,et al.Biophys. J. 76:1384-1400(1999). Ophoff R.A.,et al.Cell 87:543-552(1996). Zhuchenko O.,et al.Nat. Genet. 15:62-69(1997). Toru S.,et al.J. Biol. Chem. 275:10893-10898(2000). Grimwood J.,et al.Nature 428:529-535(2004).

NCBI AND UNIPROT INFORMATION

NCBI GI #	148536844
NCBI GeneID	773
NCBI Accession #	NP_000059.3
NCBI GenBank Nucleotide #	NM_000068.3
UniProt Accession #	O00555; P78510; P78511; Q16290; Q92690; Q99790; Q99791; Q99792; Q99793; Q9NS88; Q9UDC4; J3KP41
Molecular Weight	282564
NCBI Official Full Name	voltage-dependent P/Q-type calcium channel subunit alpha-1A isoform 1
NCBI Official Synonym Full Names	calcium channel, voltage-dependent, P/Q type, alpha 1A subunit
NCBI Official Symbol	CACNA1A
NCBI Official Synonym Symbols	BI; EA2; FHM; MHP; APCA; HPCA; MHP1; SCA6; CAV2.1; CACNL1A4
NCBI Protein Information	voltage-dependent P/Q-type calcium channel subunit alpha-1A
UniProt Protein Name	Voltage-dependent P/Q-type calcium channel subunit alpha-1A
UniProt Gene Name	CACNA1A

UniProt Synonym Gene Names	CACH4; CACN3; CACNL1A4; BI
UniProt Entry Name	CAC1A_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/cacna1a-antibody-western-blot-elisa/290580>