

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

CACNA1A Antibody

CATALOG # AAA308204	HOST Rabbit	REACTIVITY Human	APPLICATIONS Immunohistochemistry
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PRODUCT SYNONYMS

CACNA1A; Polyclonal Antibody; CACNA1A Antibody; BI; EA2; FHM; MHP; APCA; HPCA; MHP1; SCA6; CAV2.1; CACNL1A4; anti-CACNA1A antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Specificity	The antibody detects endogenous levels of total CACNA1A protein.
Purity/Purification	Antigen affinity purification.
Form/Format	Rabbit IgG in pH7.3 PBS, 0.05% NaN ₃ , 50% Glycerol.
Concentration	1.5 mg/ml (varies by lot)
Sequence Length	2266
Applicable Applications for anti-CACNA1A antibody	IHC (Immunohistochemistry)
Immunogen Type	Peptide
Immunogen Description	Synthetic peptide corresponding to a region derived from internal residues of human calcium channel, voltage-dependent, P/Q type, alpha 1A subunit
Target Name	CACNA1A
Preparation and Storage	Store at -20 degree C

IMAGES



IHC (Immunohistochemistry)

Immunohistochemical analysis of paraffin-embedded Human gastric cancer tissue using at dilution 1/15.



IHC (Immunohistochemistry)

Immunohistochemical analysis of paraffin-embedded Human liver cancer tissue using at dilution 1/15.

ADDITIONAL INFORMATION

Related Product Information for anti-CACNA1A antibody	Voltage-dependent calcium channels 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, and gene expression. Calcium channels are multisubunit complexes composed of alpha-1, beta, alpha-2/delta, and gamma subunits. The channel activity is directed by the pore-forming alpha-1 subunit, whereas, the others act as auxiliary subunits regulating this activity. The distinctive properties of the calcium channel types are related primarily to the expression of a variety of alpha-1 isoforms, alpha-1A, B, C, D, E, and S. This gene encodes the alpha-1A subunit, which is predominantly expressed in neuronal tissue. Mutations in this gene are associated with 2 neurologic disorders, familial hemiplegic migraine and episodic ataxia 2. This gene also exhibits polymorphic variation due to (CAG)n-repeats. Multiple transcript variants encoding different isoforms have been found for this gene. In one set of transcript variants, the (CAG)n-repeats occur in the 3' UTR, and are not associated with any disease. But in another set of variants, an insertion extends the coding region to include the (CAG)n-repeats which encode a polyglutamine tract. Expansion of the (CAG)n-repeats from the normal 4-16 to 21-28 in the coding region is associated with spinocerebellar ataxia 6.
Product Categories/Family for anti-CACNA1A antibody	Total protein Ab

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	282,564 Da
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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