Rabbit CACNA1H Polyclonal Antibody | anti-CACNA1H antibody

CACNA1H Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA40552	**Rabbit**	**Human, Mouse, Rat**	**Western Blot, Immunohistochemistry, Immunofluorescence, ELISA**

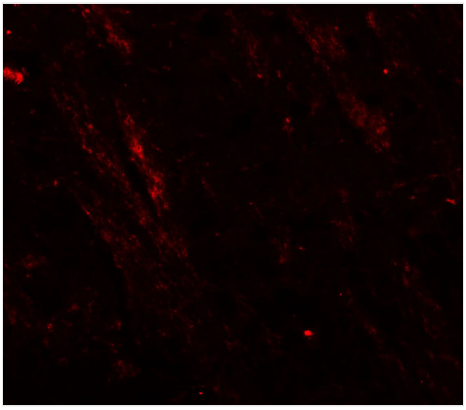
PRODUCT SYNONYMS

CACNA1H; Polyclonal Antibody; CACNA1H Antibody; Calcium channel voltage-dependent T type alpha 1H subunit; CACNA1HB; Cav3.2; ECA6; EIG6; calcium channel; voltage-dependent; T type; alpha 1H subunit; anti-CACNA1H antibody

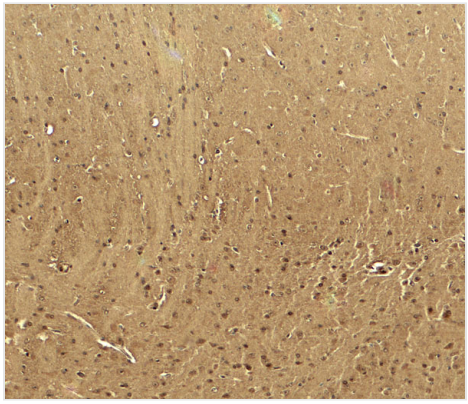
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	CACNA1H antibody is human, mouse and rat reactive. Multiple isoforms of CACNA1H are known to exist.
Purity/Purification	CACNA1H antibody is affinity chromatography purified via peptide column.
Form/Format	Liquid
Concentration	1 mg/mL (varies by lot)
Sequence Length	2353
Applicable Applications for anti-CACNA1H antibody	WB (Western Blot), IHC (Immunohistochemistry), IF (Immunofluorescence), ELISA
Conjugate	Unconjugated
Immunogen	CACNA1H antibody was raised against a 16 amino acid peptide near the center of human CACNA1H.
Buffer	CACNA1H antibody is supplied in PBS containing 0.02% sodium azide.
Preparation and Storage	CACNA1H antibody can be stored at 4°C for three months and -20°C, stable for up to one year.

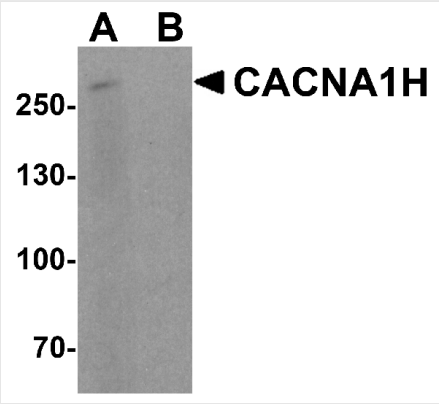
IMAGES



IF (Immunofluorescence)
Immunofluorescence of CACNA1H in mouse brain tissue with CACNA1H antibody at 20 μg/ml.



IHC (Immunohiostchemistry)
Immunohistochemistry of CACNA1H in mouse brain tissue with CACNA1H antibody at 5 μg/ml.



WB (Western Blot)
Western blot analysis of CACNA1H in 293 cell lysate with CACNA1H antibody at 1 μg/ml in (A) the absence and (B) the presence of blocking peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-CACNA1H antibody	The calcium channel protein CACNA1H is a T-type member of the alpha-1 subunit family that is part of the voltage-dependent calcium channel complex which mediates the influx of calcium ions into the cell upon membrane polarization (1,2). CACNA1H is a subunit of Cav3.2 T-type calcium channel that is involved in neurological disorders such as epilepsy and pain (2,3). CACNA1H associates with the caveolin protein Cav-3 and it is thought that Cav-3 regulates the Protein Kinase A (PKA) modulation of CACNA1H-containing Cav3.2 T-type calcium channels (4).

NCBI AND UNIPROT INFORMATION

NCBI GI #	53832009
NCBI GeneID	8912
NCBI Accession #	NP_066921
NCBI GenBank Nucleotide #	NM_021098.2
UniProt Accession #	O95180; O95802; Q8WWI6; Q96QI6; Q96RZ9; Q9NYY4; Q9NYY5; B5ME00; F8WFD1
Molecular Weight	Predicted: 259 kDa Observed: 260 kDa
NCBI Official Full Name	voltage-dependent T-type calcium channel subunit alpha-1H isoform a
NCBI Official Synonym Full Names	calcium channel, voltage-dependent, T type, alpha 1H subunit

NCBI Official Symbol	CACNA1H
NCBI Official Synonym Symbols	ECA6; EIG6; Cav3.2; CACNA1HB
NCBI Protein Information	voltage-dependent T-type calcium channel subunit alpha-1H; voltage-gated calcium channel alpha subunit Cav3.2; voltage-gated calcium channel alpha subunit CavT.2; voltage-gated calcium channel subunit alpha Cav3.2; low-voltage-activated calcium channel alpha13.2 subunit; low-voltage-activated calcium channel alpha1 3.2 subunit; voltage dependent t-type calcium channel alpha-1H subunit; calcium channel, voltage-dependent, T type, alpha 1Hb subunit
UniProt Protein Name	Voltage-dependent T-type calcium channel subunit alpha-1H
UniProt Gene Name	**CACNA1H**
UniProt Entry Name	CAC1H_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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