

Rabbit CACNA1H Polyclonal Antibody | anti-CACNA1H antibody

CACNA1H Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA325257	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Western Blot

PRODUCT SYNONYMS

CACNA1H; Polyclonal Antibody; CACNA1H Antibody; Alpha1 3.2; Alpha13.2; CAC1H_HUMAN; CACNA 1H; CACNA1 H; CACNA1 HB; Cacna1h; CACNA1HB; Calcium channel alpha13.2 subunit; Calcium channel voltage dependent T type alpha 1H subunit; Calcium channel; voltage-dependent; T type; alpha 1Hb subunit; Cav 3.2; Cav T.2; Cav3.2; CavT.2; EIG 6; EIG6; Low voltage activated calcium channel alpha 13.2 subunit; Low voltage activated calcium channel alpha1 3.2 subunit; Low-voltage-activated calcium channel alpha1 3.2 subunit; MNCb 1209; T type Cav3.2; Voltage dependent t type calcium channel alpha 1H subunit; Voltage gated calcium channel alpha subunit Cav 3.2; Voltage gated calcium channel alpha subunit Cav T.2; Voltage gated calcium channel alpha subunit Cav3.2; Voltage gated calcium channel alpha subunit CavT.2; Voltage-dependent T-type calcium channel subunit alpha-1H; Voltage-gated calcium channel subunit alpha Cav3.2; anti-CACNA1H antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	CACNA1H antibody detects endogenous levels of total CACNA1H
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	2347
Applicable Applications for anti-CACNA1H antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide
Subcellular Location	Membrane.
Tissue Specificity	In nonneuronal tissues, the highest expression levels are found in the kidney, liver, and heart. In the brain, most abundant in the amygdala, caudate nucleus, and putamen (PubMed:9670923, PubMed:9930755). In the heart, expressed in blood vessels. Isoform 1 and isoform 2 are expressed in testis, primarily in the germ cells, but not in other portions of the reproductive tract, such as ductus deferens. Isoform 2 is not detected in brain (PubMed:11751928). Expressed in the adrenal glomerulosa (at protein level) (PubMed:25907736, PubMed:27729216).
Predicted Cross Reactivity	Pig, Bovine, Horse, Dog
Similarity	Pig (100%), Bovine (100%), Horse (100%), Dog (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)
Western blot analysis of extracts from A549 cells, using CACNA1H antibody.



IF (Immunofluorescence)
AAA325257 staining A549 by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-CACNA1H antibody	Function: Voltage-sensitive calcium channel that gives rise to T-type calcium currents. T-type calcium channels belong to the "low-voltage activated (LVA)" group. A particularity of this type of channel is an opening at quite negative potentials, and a voltage-dependent inactivation (PubMed:9670923, PubMed:9930755, PubMed:27149520). T-type channels serve pacemaking functions in both central neurons and cardiac nodal cells and support calcium signaling in secretory cells and vascular smooth muscle (Probable). They may also be involved in the modulation of firing patterns of neurons (PubMed:15048902). In the adrenal zona glomerulosa, participates in the signaling pathway leading to aldosterone production in response to either AGT/angiotensin II, or hyperkalemia (PubMed:25907736, PubMed:27729216). Subunit Structure: Interacts (via N-terminal cytoplasmic domain) with STAC. Post-translational Modifications: In response to raising of intracellular calcium, the T-type channels are activated by CaM-kinase II. Similarity: Each of the four internal repeats contains five hydrophobic transmembrane segments (S1, S2, S3, S5, S6) and one positively charged transmembrane segment (S4). S4 segments probably represent the voltage-sensor and are characterized by a series of positively charged amino acids at every third position. Belongs to the calcium channel alpha-1 subunit (TC 1.A.1.11) family. CACNA1H subfamily.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	53832011
NCBI GeneID	8912
NCBI Accession #	NP_001005407.1
NCBI GenBank Nucleotide #	NM_001005407.1
UniProt Accession #	O95180; O95802; Q8WWI6; Q96QI6; Q96RZ9; Q9NYY4; Q9NYY5; B5ME00; F8WFD1
Molecular Weight	Observed: 259 kD Predicted: 260 kDa
NCBI Official Full Name	voltage-dependent T-type calcium channel subunit alpha-1H isoform b
NCBI Official Synonym Full Names	calcium voltage-gated channel subunit alpha1 H
NCBI Official Symbol	CACNA1H
NCBI Official Synonym Symbols	ECA6; EIG6; HALD4; Cav3.2; CACNA1HB
NCBI Protein Information	voltage-dependent T-type calcium channel subunit alpha-1H
UniProt Protein Name	Voltage-dependent T-type calcium channel subunit alpha-1H
UniProt Gene Name	CACNA1H

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.