

Rabbit anti-Human CACNA1F Polyclonal Antibody | anti-CACNA1F antibody

CACNA1F Antibody (Center)

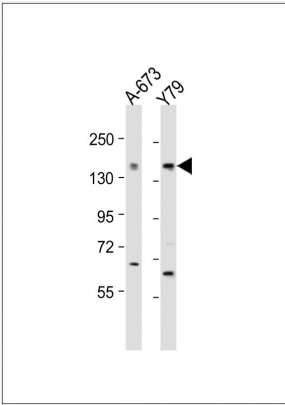
CATALOG # AAA290578	HOST Rabbit	REACTIVITY Human	APPLICATIONS ELISA, Western Blot
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PRODUCT SYNONYMS

CACNA1F; Polyclonal Antibody; CACNA1F Antibody (Center); Purified Rabbit Polyclonal Antibody (Pab); Voltage-dependent L-type calcium channel subunit alpha-1F; Voltage-gated calcium channel subunit alpha Cav14; CACNAF1; anti-CACNA1F antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	IgG
Specificity	This CACNA1F antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 743-776 amino acids from the Central region of human CACNA1F.
Purity/Purification	This antibody is purified through a protein A column, followed by peptide affinity purification.
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.
Sequence Length	1966
Applicable Applications for anti-CACNA1F antibody	ELISA, WB (Western Blot)
Function	[Isoform 1]: 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-1F gives rise to L-type calcium currents. Long-lasting (L-type) calcium channels belong to the 'high-voltage activated' (HVA) group. They are blocked by dihydropyridines (DHP), phenylalkylamines, and by benzothiazepines. Activates at more negative voltages and does not undergo calcium- dependent inactivation (CDI), due to incoming calcium ions, during depolarization.
Cellular Location	Membrane; Multi-pass membrane protein
Tissue Location	Expression in skeletal muscle and retina (PubMed:10873387). Isoform 4 is expressed in retina (PubMed:27226626)
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 2 weeks. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.



WB (Western Blot)
All lanes : Anti-CACNA1F Antibody (Center) at 1:2000 dilution
Lane 1: A-673 whole cell lysate
Lane 2: Y79 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 : 221 kDa
Blocking/Dilution buffer: 5% NFD/TBST.

ADDITIONAL INFORMATION

Related Product Information for anti-CACNA1F 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-1F gives rise to L-type calcium currents. Long-lasting (L-type) calcium channels belong to the 'high-voltage activated' (HVA) group. They are blocked by dihydropyridines (DHP), phenylalkylamines, benzothiazepines, and by omega-agatoxin-IIIa (omega-Aga-IIIa). They are however insensitive to omega-conotoxin- GVIA (omega-CTX-GVIA) and omega-agatoxin-IVA (omega-Aga-IVA).
Product Categories/Family for anti-CACNA1F antibody	Neuroscience; Signal Transduction
References	Strom T.M.,et al.Nat. Genet. 19:260-263(1998). Bech-Hansen N.T.,et al.Nat. Genet. 19:264-267(1998). Naylor M.J.,et al.Genomics 66:324-327(2000). Sinnegger-Brauns M.J.,et al.Mol. Pharmacol. 75:407-414(2009). Ross M.T.,et al.Nature 434:325-337(2005).

NCBI AND UNIPROT INFORMATION

NCBI GI #	377823715
NCBI GeneID	778
NCBI Accession #	NP_001243718.1
NCBI GenBank Nucleotide #	NM_001256789.2
UniProt Accession #	O60840; O43901; O95226; Q9UHB1; A6NI29; F5CIQ9
Molecular Weight	220678
NCBI Official Full Name	voltage-dependent L-type calcium channel subunit alpha-1F isoform 2
NCBI Official Synonym Full Names	calcium channel, voltage-dependent, L type, alpha 1F subunit
NCBI Official Symbol	CACNA1F
NCBI Official Synonym Symbols	JM8; OA2; AIED; COD3; COD4; JMC8; CORDX; CSNB2; CORDX3; CSNB2A; CSNBX2; Cav1.4; Cav1.4alpha1
NCBI Protein Information	voltage-dependent L-type calcium channel subunit alpha-1F
UniProt Protein Name	Voltage-dependent L-type calcium channel subunit alpha-1F
UniProt Gene Name	CACNA1F

UniProt Synonym Gene Names	CACNAF1
UniProt Entry Name	CAC1F_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://www.aaabiotech.com/polyclonal/cacna1f-antibody-western-blot-elisa/290578>