

CACNA1F Antibody (Center)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP21695c

Specification

CACNA1F Antibody (Center) - Product Information

Application	WB,E
Primary Accession	O60840
Reactivity	Human
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG
Calculated MW	220678

CACNA1F Antibody (Center) - Additional Information

Gene ID 778

Other Names

Voltage-dependent L-type calcium channel subunit alpha-1F, Voltage-gated calcium channel subunit alpha Cav14, CACNA1F, CACNAF1

Target/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.

Dilution

WB~~1:2000

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.

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.

Precautions

CACNA1F Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

CACNA1F Antibody (Center) - Protein Information

Name CACNA1F ([HGNC:1393](#))

Synonyms CACNAF1

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

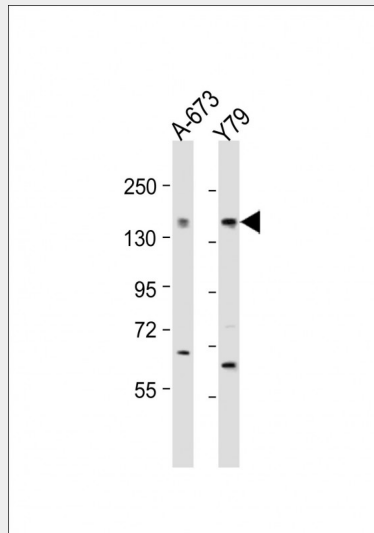
Expression in skeletal muscle and retina (PubMed:10873387). Isoform 4 is expressed in retina (PubMed:27226626)

CACNA1F Antibody (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

CACNA1F Antibody (Center) - Images



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 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 221 kDa Blocking/Dilution buffer: 5% NFDN/TBST.

CACNA1F Antibody (Center) - Background

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).

CACNA1F Antibody (Center) - 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).