

# CACNA1F Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP21695c

## Product Information

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<b>Application</b>	WB, E
<b>Primary Accession</b>	<a href="#">O60840</a>
<b>Reactivity</b>	Human, Mouse
<b>Host</b>	Rabbit
<b>Clonality</b>	polyclonal
<b>Isotype</b>	Rabbit IgG
<b>Clone Names</b>	RB53557
<b>Calculated MW</b>	220678

## Additional Information

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<b>Gene ID</b>	778
<b>Other Names</b>	Voltage-dependent L-type calcium channel subunit alpha-1F, Voltage-gated calcium channel subunit alpha Cav14, CACNA1F, CACNAF1
<b>Target/Specificity</b>	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.
<b>Dilution</b>	WB~~1:2000 E~~Use at an assay dependent concentration.
<b>Format</b>	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.
<b>Storage</b>	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.
<b>Precautions</b>	CACNA1F Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	CACNA1F ( <a href="#">HGNC:1393</a> )
<b>Synonyms</b>	CACNAF1
<b>Function</b>	[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)

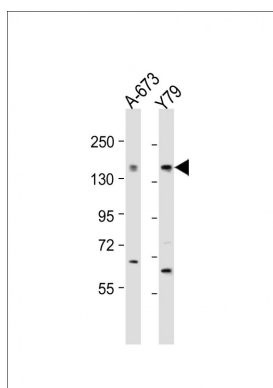
## Background

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).

## 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).

## 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% NFDM/TBST.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.