

Anti-Cav3.1 Antibody
Catalog # AP53765**Specification**

Anti-Cav3.1 Antibody - Product Information

Application	WB
Primary Accession	O43497
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	262472

Anti-Cav3.1 Antibody - Additional Information**Gene ID** 8913**Other Names**KIAA1123; Voltage-dependent T-type calcium channel subunit alpha-1G; Cav3.1c; NBR13;
Voltage-gated calcium channel subunit alpha Cav3.1**Target/Specificity**

KLH-conjugated synthetic peptide encompassing a sequence within the center region of human Cav3.1. The exact sequence is proprietary.

Dilution

WB~~1/500 - 1/1000

Format

Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

Storage

Store at -20 °C.Stable for 12 months from date of receipt

Anti-Cav3.1 Antibody - Protein Information**Name** CACNA1G**Synonyms** KIAA1123**Function**

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-1G gives rise to T-type calcium currents. T-type calcium channels belong to the 'low-voltage activated (LVA)' group and are strongly blocked by mibefradil. A particularity of this type of channel is an opening at quite negative potentials and a voltage-dependent inactivation. 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. They may also be involved in the modulation of firing patterns of neurons which is important for information processing as well as in cell growth processes.

Cellular Location

Cell membrane; Multi-pass membrane protein. Cytoplasm

Tissue Location

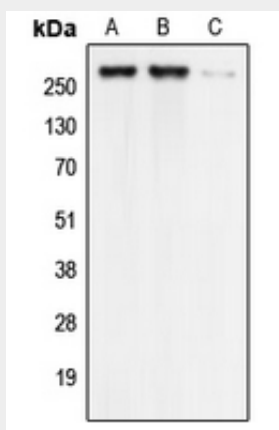
Highly expressed in brain, in particular in the amygdala, subthalamic nuclei, cerebellum and thalamus. Moderate expression in heart; low expression in placenta, kidney and lung. Also expressed in colon and bone marrow and in tumoral cells to a lesser extent. Highly expressed in fetal brain, but also in peripheral fetal tissues as heart, kidney and lung, suggesting a developmentally regulated expression

Anti-Cav3.1 Antibody - 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](#)

Anti-Cav3.1 Antibody - Images



Western blot analysis of Cav3.1 expression in HEK293T (A), Raw264.7 (B), H9C2 (C) whole cell lysates.

Anti-Cav3.1 Antibody - Background

Rabbit polyclonal antibody to Cav3.1