

**Cav1.3 Polyclonal Antibody**  
**Catalog # AP63663****Specification**

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**Cav1.3 Polyclonal Antibody - Product Information**

Application	IHC
Primary Accession	<a href="#">Q01668</a>
Reactivity	Human, Rat, Mouse
Host	Rabbit
Clonality	Polyclonal

**Cav1.3 Polyclonal Antibody - Additional Information****Gene ID** 776**Other Names**

Voltage-dependent L-type calcium channel subunit alpha-1D (Calcium channel, L type, alpha-1 polypeptide, isoform 2) (Voltage-gated calcium channel subunit alpha Cav1.3)

**Dilution**

IHC~~IHC 1:100-200

**Format**

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

**Storage Conditions**

-20°C

**Cav1.3 Polyclonal Antibody - Protein Information****Name** CACNA1D**Synonyms** CACH3, CACN4, CACNL1A2, CCHL1A2**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-1D 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.

**Cellular Location**

Membrane; Multi- pass membrane protein

**Tissue Location**

Expressed in pancreatic islets and in brain, where it has been seen in cerebral cortex, hippocampus, basal ganglia, habenula and thalamus. Expressed in the small cell lung carcinoma

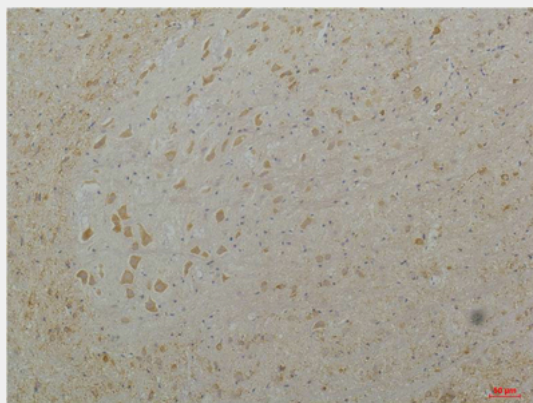
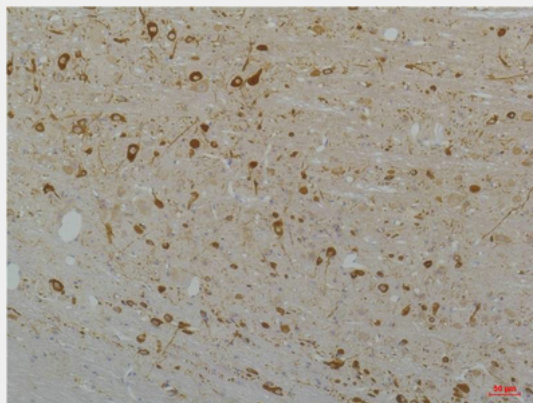
cell line SCC-9. No expression in skeletal muscle

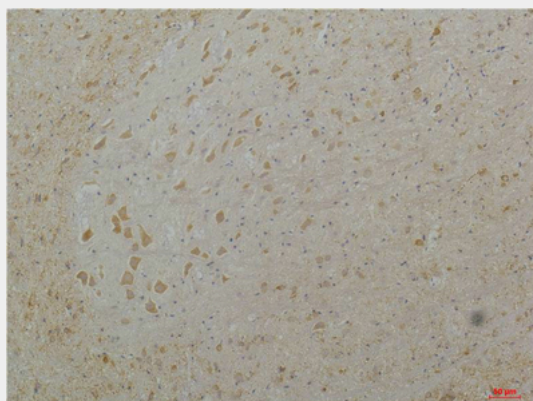
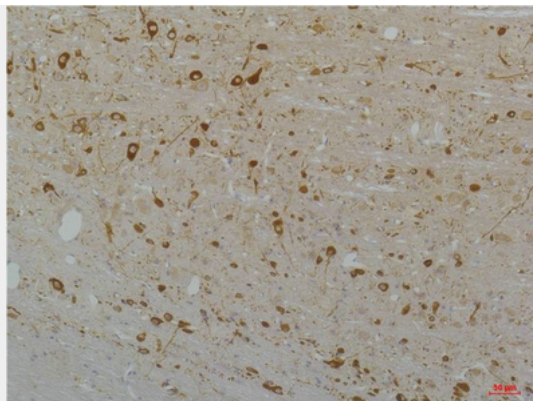
### Cav1.3 Polyclonal Antibody - Protocols

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](#)

### Cav1.3 Polyclonal Antibody - Images





### **Cav1.3 Polyclonal Antibody - 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-1D 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.