

## Cav3.1 Ca<sup>2+</sup> Channel Monoclonal Antibody

### ORDERING INFORMATION

**Catalog No.:** 11565 (clone S178A-9)  
**Size:** 100ug in PBS, pH 7.4; 50% glycerol, 0.09% sodium azide. Purified by Protein G affinity chromatography.

### BACKGROUND

Ion channels are integral membrane proteins that help establish and control the small voltage gradient across the plasma membrane of living cells by allowing the flow of ions down their electrochemical gradient. Cav3.1 is a low-voltage-activated T-type calcium channel expressed throughout the body. Drugs that block T-type calcium channels are used as antihypertensives and antiepileptics and possibly in some anesthetics and antipsychotics.

### SPECIFICATION SUMMARY

**Antigen:** Fusion protein corresponding to aa 2052-2172 (cytoplasmic C-terminus) of mouse Cav3.1 (accession no. NP\_001106284.1).

**Host Species:** Mouse

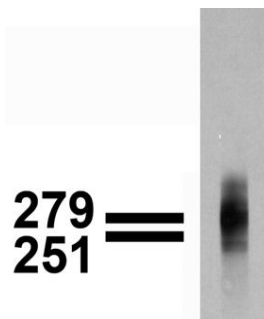
**Antibody Class:** IgG1

### SPECIFICITY

This antibody recognizes human, mouse, and rat Cav3.1. It does not cross-react with Cav3.2.

### APPLICATIONS

*Immunoblotting:* use at 1-2ug/ml. A band of >200kDa is detected.



*Immunohistochemistry:* use at 1-10ug/ml. These are recommended concentrations. User should determine optimal concentrations for their application.

*Positive control:* Rat brain membranes.

### DILUTION INSTRUCTIONS

Dilute in PBS or medium which is identical to that used in the assay system.

### STORAGE AND STABILITY

This antibody is stable for at least one (1) year at -20°C. Avoid repeated freezing and thawing.

*For in vitro investigational use only. Not for use in therapeutic or diagnostic procedures.*