

**Cav beta 2 Antibody**  
**CavBeta2 Antibody, Clone S8B-1**  
**Catalog # ASM10208**

**Specification**

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**Cav beta 2 Antibody - Product Information**

Application	<b>IHC, WB</b>
Primary Accession	<a href="#">O8VGC3</a>
Other Accession	<a href="#">NP_446303</a>
Host	<b>Mouse</b>
Isotype	<b>IgG1</b>
Reactivity	<b>Human, Mouse, Rat</b>
Clonality	<b>Monoclonal</b>

**Description**

Mouse Anti-Rat Cav beta 2 Monoclonal IgG1

**Target/Specificity**

Detects ~78 kDa. No cross reactivity against Cav $\beta$ 1, Cav $\beta$ 3, Cav $\beta$ 4.

**Other Names**

Cacnlb2 Antibody, cacnb2 Antibody, Voltage-dependent L-type calcium channel subunit beta-2 Antibody, CAB2 Antibody

**Immunogen**

Synthetic peptide amino acids 189-205 of rat CavBeta2

**Purification**

Protein G Purified

Storage **-20°C**

**Storage Buffer**

PBS pH7.4, 50% glycerol, 0.09% sodium azide

Shipping Temperature **Blue Ice or 4°C**

**Certificate of Analysis**

1  $\mu$ g/ml of SMC-332 was sufficient for detection of Cav $\beta$ 2 in 10  $\mu$ g of rat brain lysate by colorimetric immunoblot analysis using Goat anti-mouse IgG:HRP as the secondary antibody

**Cellular Localization**

Cell Membrane | Sarcolemma

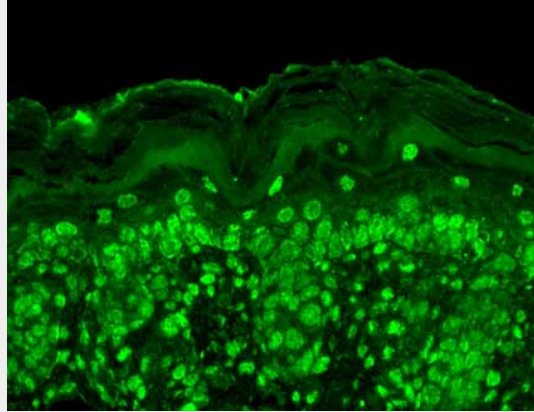
**Cav beta 2 Antibody - Protocols**

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

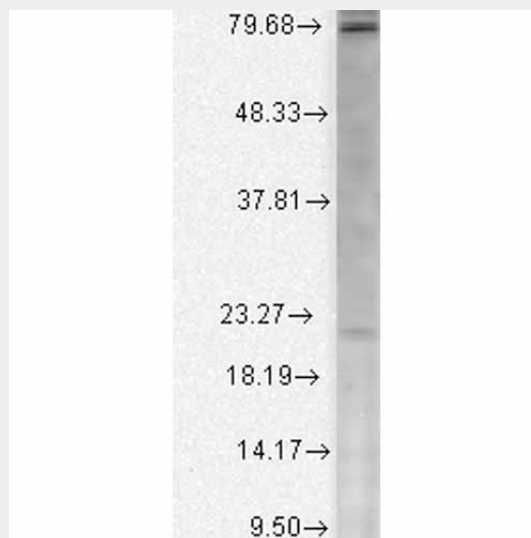
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)

- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

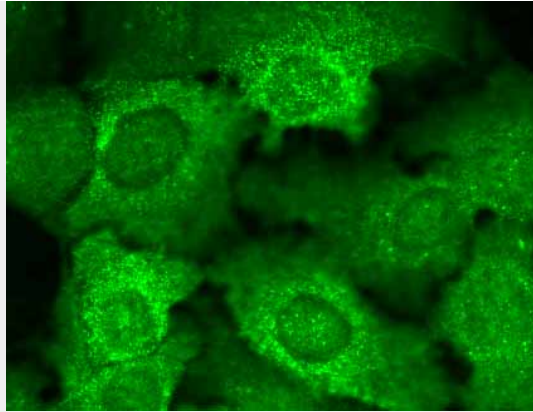
### Cav beta 2 Antibody - Images



Immunohistochemistry analysis using Mouse Anti-Cav Beta2 Calcium Channel Monoclonal Antibody, Clone S8b-1 (ASM10208). Tissue: backskin. Species: Mouse. Fixation: Bouin's Fixative and paraffin-embedded. Primary Antibody: Mouse Anti-Cav Beta2 Calcium Channel Monoclonal Antibody (ASM10208) at 1:100 for 1 hour at RT. Secondary Antibody: FITC Goat Anti-Mouse (green) at 1:50 for 1 hour at RT. Localization: All nuclei. Some nuclei also staining higher up in epidermis.



Western Blot analysis of Human Cell line lysates showing detection of Cav Beta2 Calcium Channel protein using Mouse Anti-Cav Beta2 Calcium Channel Monoclonal Antibody, Clone S8b-1 (ASM10208). Load: 15 µg. Block: 1.5% BSA for 30 minutes at RT. Primary Antibody: Mouse Anti-Cav Beta2 Calcium Channel Monoclonal Antibody (ASM10208) at 1:1000 for 2 hours at RT. Secondary Antibody: Sheep Anti-Mouse IgG: HRP for 1 hour at RT.



Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-Cav Beta2 Calcium Channel Monoclonal Antibody, Clone S8b-1 (ASM10208). Tissue: HaCaT cells. Species: Human. Fixation: Cold 100% methanol for 10 minutes at -20°C. Primary Antibody: Mouse Anti-Cav Beta2 Calcium Channel Monoclonal Antibody (ASM10208) at 1:100 for 1 hour at RT. Secondary Antibody: FITC Goat Anti-Mouse (green) at 1:50 for 1 hour at RT. Localization: All cells positive. Bright dottiness located throughout cytoplasm and in nuclei.

### **Cav beta 2 Antibody - Background**

Cav Beta subunits are involved in the transport of the pore forming alpha1 subunit to the plasma membrane (1). They also shield an ER Retention signal on the alpha1 subunit, thereby guiding the pore-forming subunit to the target membrane (2, 3). They also determine the biophysical properties of the calcium channel (3).

### **Cav beta 2 Antibody - References**

1. Dolphin A.C. (2003) J Bioenerg. Biomembr. 35: 599-620.
2. Bichet D., et al. (2000) Neuron. 25: 177-190.
3. Xie M., et al. (2007) J Cell Biol. 178(3): 489-502.