# Cacnb2 monoclonal antibody, clone S8b-1

Catalog # MAB7895 Size 100 ug

## Specification

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|---|---|
| **Product Description** | Mouse monoclonal antibody raised against synthetic peptide of Kcnt1. |
| **Immunogen** | A synthetic peptide corresponding to amino acids 189-205 of rat Kcnt1. |
| **Host** | Mouse |
| **Reactivity** | Human, Mouse, Rat |
| **Form** | Liquid |
| **Isotype** | IgG1 |
| **Recommend Usage** | Western Blot (1-10 ug/mL)<br>Immunohistochemistry (0.1-1.0 ug/mL)<br>Immunocytochemistry (0.1-1.0 ug/mL)<br>Immunofluorescence (1-10 ug/mL)<br>The optimal working dilution should be determined by the end user. |
| **Storage Buffer** | In PBS, pH 7.4 (50% glycerol, 0.09% sodium azide) |
| **Storage Instruction** | Store at -20°C.<br>Aliquot to avoid repeated freezing and thawing. |
| **Note** | This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only. |

## Applications

- Immunohistochemistry
- Immunoprecipitation
- Western Blot

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## Gene Info — Cacnb2

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|---|---|
| **Entrez GeneID** | 116600 |
| **Protein Accession#** | NP_446303 |
| **Gene Name** | Cacnb2 |
| **Gene Alias** | Cacnlb2 |
| **Gene Description** | calcium channel, voltage-dependent, beta 2 subunit |
| **Gene Ontology** | Hyperlink |
| **Gene Summary** | voltage-dependent |
| **Other Designations** | - |

## Publication Reference


- Facilitation versus depression in cultured hippocampal neurons determined by targeting of Ca2+ channel Cavbeta4 versus Cavbeta2 subunits to synaptic terminals.

  Xie M, Li X, Han J, Vogt DL, Wittemann S, Mark MD, Herlitze S.

  The Journal of Cell Biology 2007 Jul; 178(3):489.

- Beta subunits of voltage-gated calcium channels.

  Dolphin AC.

  Journal of Bioenergetics and Biomembranes 2003 Dec; 35(6):599.

  Application: IF, Dog, Monkey, COS-7, MDCK cells

- The I-II loop of the Ca2+ channel alpha1 subunit contains an endoplasmic reticulum retention signal antagonized by the beta subunit.

  Bichet D, Cornet V, Geib S, Carlier E, Volsen S, Hoshi T, Mori Y, De Waard M.

  Neuron 2000 Jan; 25(1):177.


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