ARG22228
anti-CACNB2 antibody [S8B-1]

Package: 50 µg
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [S8B-1] recognizes CACNB2
Tested Reactivity	Hu, Ms, Rat
Tested Application	ICC/IF, IHC, IP, WB
Specificity	Detects ~78 kDa. No cross reactivity against Cavβ1, Cavβ3, Cavβ4.
Host	Mouse
Clonality	Monoclonal
Clone	S8B-1
Isotype	IgG1
Target Name	CACNB2
Species	Rat
Immunogen	Synthetic peptide around aa. 189-205 of Rat CACNB2
Conjugation	Un-conjugated
Alternate Names	Lambert-Eaton myasthenic syndrome antigen B; CACNLB2; Voltage-dependent L-type calcium channel subunit beta-2; Calcium channel voltage-dependent subunit beta 2; CAVB2; CAB2; MYSB

Application Instructions

Application table

Application	Dilution
ICC/IF	1:100
IHC	1:1000
IP	Assay-dependent
WB	1:1000

Application Note

* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

Form	Liquid
Purification	Purification with Protein G.
Buffer	PBS (pH 7.4), 0.09% Sodium azide and 50% Glycerol
Preservative	0.09% Sodium azide
Stabilizer	50% Glycerol
Concentration	1 mg/ml

Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	Cacnb2
Gene Full Name	calcium channel, voltage-dependent, beta 2 subunit
Background	This gene encodes a subunit of a voltage-dependent calcium channel protein that is a member of the voltage-gated calcium channel superfamily. The gene product was originally identified as an antigen target in Lambert-Eaton myasthenic syndrome, an autoimmune disorder. Mutations in this gene are associated with Brugada syndrome. Alternatively spliced variants encoding different isoforms have been described. [provided by RefSeq, Feb 2013]
Function	The beta subunit of voltage-dependent calcium channels contributes to the function of the calcium channel by increasing peak calcium current, shifting the voltage dependencies of activation and inactivation, modulating G protein inhibition and controlling the alpha-1 subunit membrane targeting. [UniProt]
Calculated Mw	74 kDa
PTM	Regulated through phosphorylation at Thr-554 by CaMK2D.
Cellular Localization	Cell membrane, Sarcolemma

Images

ARG22228 anti-CACNB2 antibody [S8B-1] WB image

Western blot: Human cell line lysates stained with ARG22228 anti-CACNB2 antibody [S8B-1] at 1:1000 dilution.