ARG22281
anti-CACNB1 antibody [S7-18]

Package: 50 µg
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [S7-18] recognizes CACNB1
Tested Reactivity	Hu, Ms, Rat
Tested Application	ICC/IF, IHC, IP, WB
Specificity	Detects ~80, 55kDa. No cross-reactivity against Cav Beta4.
Host	Mouse
Clonality	Monoclonal
Clone	S7-18
Isotype	IgG1
Target Name	CACNB1
Antigen Species	Rat
Immunogen	Synthetic peptide around aa. 19-34 of Rat CACNB1
Conjugation	Un-conjugated
Alternate Names	Voltage-dependent L-type calcium channel subunit beta-1; CAB1; CACNLB1; Calcium channel voltage-dependent subunit beta 1; CCHLB1

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.
Calculated Mw	66 kDa
Observed Size	~ 80, 55 kDa

Properties

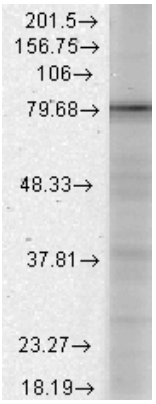
Form	Liquid
Purification	Purification with Protein G.
Buffer	PBS (pH 7.4), 0.09% Sodium azide and 50% Glycerol
Preservative	0.09% Sodium azide

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	Cacnb1
Gene Full Name	calcium channel, voltage-dependent, beta 1 subunit
Background	The protein encoded by this gene belongs to the calcium channel beta subunit family. It plays an important role in the calcium channel by modulating G protein inhibition, increasing peak calcium current, controlling the alpha-1 subunit membrane targeting and shifting the voltage dependence of activation and inactivation. Alternative splicing occurs at this locus and three transcript variants encoding three distinct isoforms have been identified. [provided by RefSeq, Jul 2008]
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]
Cellular Localization	Cell membrane

Images



ARG22281 anti-CACNB1 antibody [S7-18] WB image

Western blot: Rat brain membrane lysate stained with ARG22281 anti-CACNB1 antibody [S7-18] at 1:1000 dilution.