10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

CACNB2 Antibody (monoclonal) (M05)

Mouse monoclonal antibody raised against a partial recombinant CACNB2.
Catalog # AT1368a

Product Information

Application	WB, E
Primary Accession	Q08289
Other Accession	NM_201596
Reactivity	Human, Mouse
Host	mouse
Clonality	monoclonal
Isotype	IgG2b Kappa
Clone Names	6C4
Calculated MW	73581

Additional Information

Gene ID	783
Other Names	Voltage-dependent L-type calcium channel subunit beta-2, CAB2, Calcium channel voltage-dependent subunit beta 2, Lambert-Eaton myasthenic syndrome antigen B, MYSB, CACNB2, CACNLB2, MYSB
Target/Specificity	CACNB2 (NP_963890, 213 a.a. ~ 301 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	CACNB2 Antibody (monoclonal) (M05) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

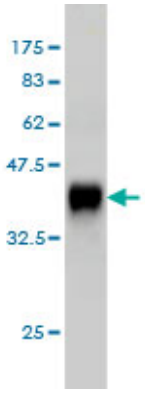
This gene encodes a subunit of a voltage-dependent calcium channel protein which is a member of the voltage-gated calcium channel superfamily. The gene product was originally identified as an antigen target in Lambert-Eaton myasthenic syndrome which is an autoimmune disorder. Mutations in this gene are associated with Brugada symdrome. Alternatively spliced variants have been identified for this gene.

References

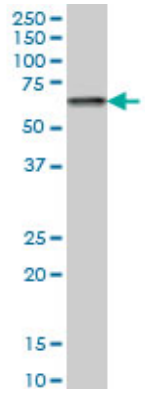
1.Decrease in the density of t-tubular L-type Ca2+ channel currents in failing ventricular

myocytes.Horiuchi-Hirose M, Kashihara T, Nakada T, Kurebayashi N, Shimojo H, Shibazaki T, Sheng X, Yano S, Hirose M, Hongo M, Sakurai T, Moriizumi T, Ueda H, Yamada M.Am J Physiol Heart Circ Physiol. 2011 Mar;300(3):H978-88. Epub 2010 Dec 30.2.Role of glycine residues highly conserved in the S2-S3 linkers of domains I and II of voltage-gated calcium channel alpha1 subunits.Teng J, Iida K, Ito M, Izumi-Nakaseko H, Kojima I, Adachi-Akahane S, Iida H.BBA-Biomembranes (2010), doi: 10.1016/j.bbamem.2010.01.004

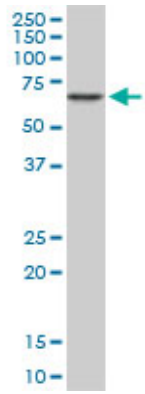
Images



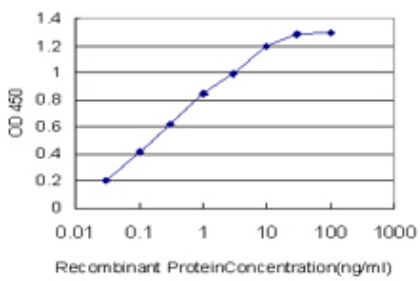
Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (35.53 KDa) .



CACNB2 monoclonal antibody (M05), clone 6C4 Western Blot analysis of CACNB2 expression in Hela S3 NE ((Cat # AT1368a)



CACNB2 monoclonal antibody (M05), clone 6C4. Western Blot analysis of CACNB2 expression in NIH/3T3 ((Cat # AT1368a)



Detection limit for recombinant GST tagged CACNB2 is approximately 0.03ng/ml as a capture antibody.