

CACNB2 Antibody (monoclonal) (M05)**Mouse monoclonal antibody raised against a partial recombinant CACNB2.****Catalog # AT1368a****Specification**

CACNB2 Antibody (monoclonal) (M05) - Product Information

Application	WB, E
Primary Accession	Q08289
Other Accession	NM_201596
Reactivity	Human, Mouse
Host	mouse
Clonality	Monoclonal
Isotype	IgG2b Kappa
Calculated MW	73581

CACNB2 Antibody (monoclonal) (M05) - 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.

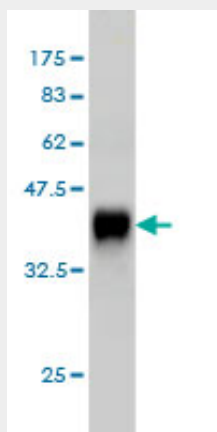
CACNB2 Antibody (monoclonal) (M05) - Protocols

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

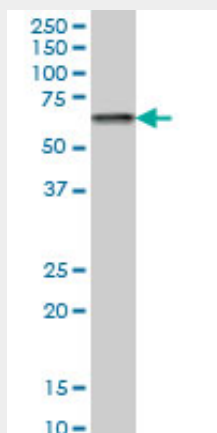
- [Western Blot](#)

- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

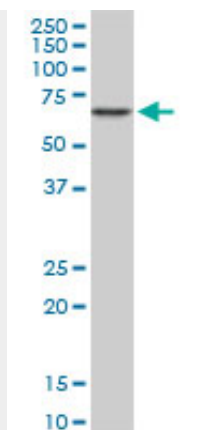
CACNB2 Antibody (monoclonal) (M05) - Images



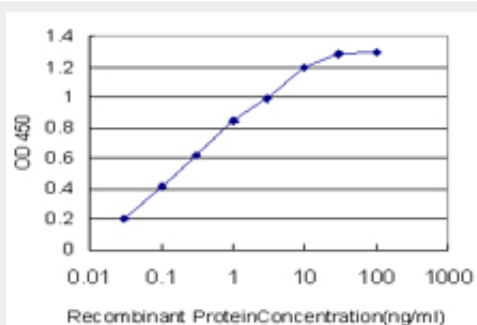
Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (35.53 KDa) .



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.

CACNB2 Antibody (monoclonal) (M05) - 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 syndrome. Alternatively spliced variants have been identified for this gene.

CACNB2 Antibody (monoclonal) (M05) - References

1. Decrease in the density of t-tubular L-type Ca^{2+} 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 α_1 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