

CACNB1 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant CACNB1.

Catalog # AT1366a

Product Information

Application	WB
Primary Accession	Q02641
Other Accession	NM_000723
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	1G6
Calculated MW	65714

Additional Information

Gene ID	782
Other Names	Voltage-dependent L-type calcium channel subunit beta-1, CAB1, Calcium channel voltage-dependent subunit beta 1, CACNB1, CACNLB1
Target/Specificity	CACNB1 (NP_000714, 500 a.a. ~ 598 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000
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	CACNB1 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

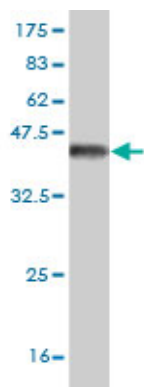
The protein encoded by this gene belongs to the calcium channel beta subunit family. It plays an important role in the calcium channel by modulating G protein inhibition, increasing peak calcium current, controlling the alpha-1 subunit membrane targeting and shifting the voltage dependence of activation and inactivation. Alternative splicing occurs at this locus and three transcript variants encoding three distinct isoforms have been identified.

References

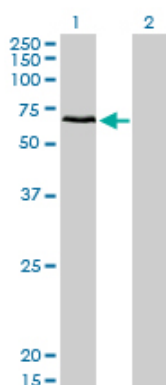
- 1.The {beta}1 subunit of L-type voltage-gated Ca²⁺ channels independently binds to and inhibits the gating

of large-conductance Ca^{2+} -activated K^{+} channels. Zou S, Jha S, Kim EY, Dryer SE. Mol Pharmacol. 2008 Feb;73(2):369-78. Epub 2007 Nov 7.

Images

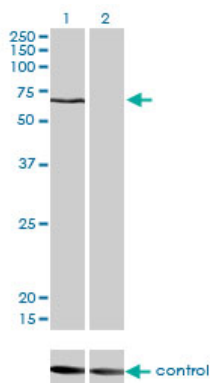


Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.63 KDa) .



Western Blot analysis of CACNB1 expression in transfected 293T cell line by CACNB1 monoclonal antibody (M01), clone 1G6.

Lane 1: CACNB1 transfected lysate (65.7 KDa).
Lane 2: Non-transfected lysate.



Western blot analysis of CACNB1 over-expressed 293 cell line, cotransfected with CACNB1 Validated Chimera RNAi (Cat # AT1366a)

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.