

CACNB1 Antibody (monoclonal) (M01)**Mouse monoclonal antibody raised against a partial recombinant CACNB1.****Catalog # AT1366a****Specification**

CACNB1 Antibody (monoclonal) (M01) - Product Information

Application	WB
Primary Accession	Q02641
Other Accession	NM_000723
Reactivity	Human
Host	mouse
Clonality	Monoclonal
Isotype	IgG2a Kappa
Calculated MW	65714

CACNB1 Antibody (monoclonal) (M01) - 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.

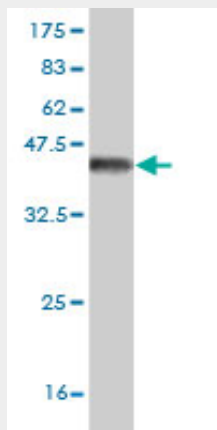
CACNB1 Antibody (monoclonal) (M01) - Protocols

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

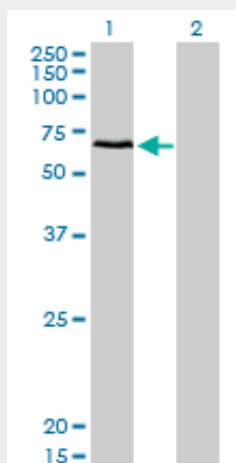
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)

- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

CACNB1 Antibody (monoclonal) (M01) - Images



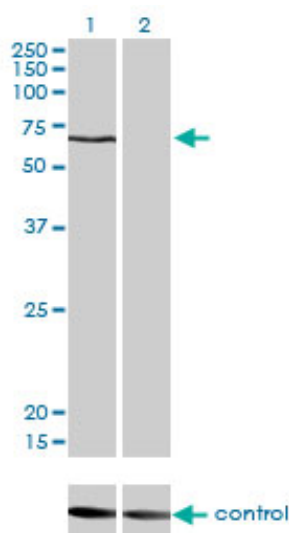
Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.63 kDa) .



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)

CACNB1 Antibody (monoclonal) (M01) - 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.

CACNB1 Antibody (monoclonal) (M01) - References

1. The β 1 subunit of L-type voltage-gated Ca^{2+} 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.