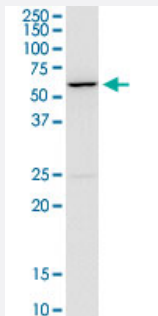


CACNB4 monoclonal antibody (M01), clone 7E1

Catalog # H00000785-M01

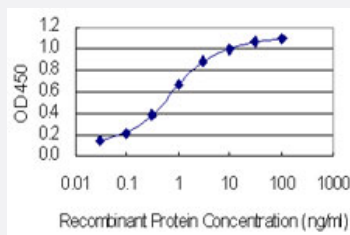
Size 100 ug

Applications



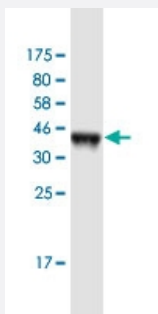
Western Blot (Cell lysate)

CACNB4 monoclonal antibody (M01), clone 7E1. Western Blot analysis of CACNB4 expression in K-562.



Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged CACNB4 is 0.03 ng/ml as a capture antibody.



Western Blot detection against Immunogen (37.84 KDa) .

Specification

Product Description

Mouse monoclonal antibody raised against a partial recombinant CACNB4.

Immunogen	CACNB4 (NP_000717.2, 1 a.a. ~ 110 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	MSSSSYAKNGTADGPHSPTSQVARGTTTTRRSRLKRSDGSTTSTSFILRQGSADSYTSRPSDSV SLEEDREAIRQEREQQAAIQLERAKSKPVAFVKTNVSYCGALDED
Host	Mouse
Reactivity	Human
Isotype	IgG2a Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (37.84 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Cell lysate)

CACNB4 monoclonal antibody (M01), clone 7E1. Western Blot analysis of CACNB4 expression in K-562.

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged CACNB4 is 0.03 ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

Gene Info — CACNB4

Entrez GeneID	785
GeneBank Accession#	NM_000726
Protein Accession#	NP_000717.2

Gene Name	CACNB4
Gene Alias	CAB4, CACNLB4, EA5, EJM
Gene Description	calcium channel, voltage-dependent, beta 4 subunit
Omim ID	600669 601949 606904
Gene Ontology	Hyperlink
Gene Summary	This gene encodes a member of the beta subunit family of voltage-dependent calcium channel complex proteins. Calcium channels mediate the influx of calcium ions into the cell upon membrane polarization and consist of a complex of alpha-1, alpha-2/delta, beta, and gamma subunits in a 1:1:1:1 ratio. Various versions of each of these subunits exist, either expressed from similar genes or the result of alternative splicing. The protein encoded by this locus plays an important role in calcium channel function 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. Certain mutations in this gene have been associated with idiopathic generalized epilepsy (IGE) and juvenile myoclonic epilepsy (JME). Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq]
Other Designations	dihydropyridine-sensitive L-type, calcium channel beta-4 subunit voltage dependent calcium channel beta 4 subunit

Pathway

- [Arrhythmogenic right ventricular cardiomyopathy \(ARVC\)](#)
- [Cardiac muscle contraction](#)
- [Hypertrophic cardiomyopathy \(HCM\)](#)
- [MAPK signaling pathway](#)

Disease

- [Epilepsies](#)
- [Epilepsy](#)
- [Genetic Predisposition to Disease](#)