

Datasheet for ABIN7559242

CACNB2 Protein (AA 1-655) (His tag)



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Overview

Quantity:	1 mg
Target:	CACNB2
Protein Characteristics:	AA 1-655
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CACNB2 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat Cacnb2 Protein expressed in mammalian cells.
Sequence:	<p>MVQSDTSKSP PVAAVAQESQ MELLESAAPA GALGAQSYGK GARRKNRFKG SDGSTSSDTT</p> <p>SNSFVRQGSA DSYTSRPSDS DVSLEEDREA VRREAERQAQ AQLEKAKTKP VAFVRTNVR</p> <p>YSAAQEDDVP VPGMAISFEA KDFLHVKEKF NNDWWIGRLV KEGCEIGFIP SPVKLENMRL</p> <p>QHEQRAKQGK FYSSKSGGNS SSSLGDIVPS SRKSTPPSSA IDIDATGLDA EENDIPANHR</p> <p>SPKPSANSVT SPHSKEKRMF FFKKTEHTPP YDVVPSMRPV VLVGPSLKG Y EVDMMQKAL</p> <p>FDLKHREFEG RISITRVTD ISLAKRSVLN NPSKHAIER SNTRSSLAEV QSEIERIFEL</p> <p>ARTLQLVVLAD ADTINHPAQL SKTSLAPIIV YVKISSPKVL QRLIKSRGKS QAKHLNVQMV</p> <p>AADKLAQCPP QESFDVILDE NQLEDACEHL ADYLEAYWKA THPPSGNLPN PLLSRTLASS</p> <p>TLPLSPTLAS NSQGSQGDQR PDRSAPRSAS QAEEPCLEP VKKSQHRSSS ATHQNHRSQT</p> <p>GRGLSRQETF DSETQESRDS AYVEPKEDYS HEHVDYVPH REHNHREETH SSNGHRHRES</p> <p>RHRSRDMGRD QDHNECIKQR SRHKS KDRYC DKEGEVISKR RNEAGEWNRD VYIRQ Sequence</p>

without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.

Characteristics:	<p>Key Benefits:</p> <ul style="list-style-type: none">• Made to order protein - from design to production - by highly experienced protein experts.• Protein expressed in mammalian cells and purified in one-step affinity chromatography• The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.• State-of-the-art algorithm used for plasmid design (Gene synthesis). <p>This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.</p> <p>If you are not interested in a full length protein, please contact us for individual protein fragments.</p> <p>The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.</p>
Purity:	> 90 % as determined by Bis-Tris Page, Western Blot
Grade:	custom-made

Target Details

Target:	CACNB2
Alternative Name:	Cacnb2 (CACNB2 Products)
Background:	<p>Voltage-dependent L-type calcium channel subunit beta-2 (CAB2) (Calcium channel voltage-dependent subunit beta 2),FUNCTION: Beta subunit of voltage-dependent calcium channels which contributes to the function of the calcium channel by increasing peak calcium current (PubMed:14674701, PubMed:36424916). Plays a role in shifting voltage dependencies of activation and inactivation of the channel (By similarity). May modulate G protein inhibition (By similarity). May contribute to beta-adrenergic augmentation of Ca(2+) influx in cardiomyocytes, thereby regulating increases in heart rate and contractile force (PubMed:36424916). Involved in membrane targeting of the alpha-1 subunit CACNA1C (By similarity).</p> <p>{ECO:0000250 UniProtKB:Q08289, ECO:0000250 UniProtKB:Q8VGC3, ECO:0000269 PubMed:14674701, ECO:0000269 PubMed:36424916}.</p>

Target Details

Molecular Weight:	73.1 kDa
UniProt:	Q8CC27
Pathways:	Skeletal Muscle Fiber Development

Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months