

Product datasheet for PH307230

CACNB1 (NM_000723) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	CACNB1 MS Standard C13 and N15-labeled recombinant protein (NP_000714)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC207230
Predicted MW:	65.5 kDa
Protein Sequence:	>RC207230 representing NM_000723 Red=Cloning site Green=Tags(s)

MVQKTSMSRGPYPSPQEIPMEVFDPSQKYSKRKGRFKRSDGSTSSDSTNSFVRQGSAESYTSRPSDS
DVSLEEDREALRKEAERQALAQLEKAKTKPVAFVRTNVGYNPSPGDEVVQGVAITFEPKDFLHIKEKY
NNDWWIGRLVKEGCEVGFIPSPVKLDSLRLLEQKLRQNRLGSSKSGDNSSSLGDVVTGTRRPTPPASA
KQKQKSTEHVPPYDVVPSMRPIILVGPVSLKGYEVTMMQKALFDLKHFRFDGRTSITRVTADISLAKRSV
LNNPSKHIIERSNTRSSLAEVQSEIERIFELARTLQLVALDADTINHPAQLSKTSLAPIIVYIKITSPK
VLQRLIKSRGKSQSKHLNVQIAASEKLAQCHPEMFDIILDENQLEDACEHLAEYLEAYWKATHPPSSTPP
NPLLNRMTATAALASPAPVSNLQGPYLASGDQPLERATGEHASMHEYPGELQPPGLYPSHPPGRAGT
LRALSRQDTFDADTPGSRNSAYTELDGSCVDMETDPSEGPGLGDPAGGGTPPARQGSWEDEEEDYEEELT
DNRNRGRNKARYCAEGGGPVLGRNKNELEGWGRGVYIR

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_000714
RefSeq Size:	3687
RefSeq ORF:	1794



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Synonyms: CAB1; CACNLB1; CCHLB1

Locus ID: 782

UniProt ID: [Q02641](#)

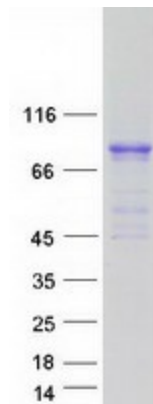
Cytogenetics: 17q12

Summary: 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. [provided by RefSeq, Jul 2008]

Protein Families: Druggable Genome, Ion Channels: Other

Protein Pathways: Arrhythmogenic right ventricular cardiomyopathy (ARVC), Cardiac muscle contraction, Dilated cardiomyopathy, Hypertrophic cardiomyopathy (HCM), MAPK signaling pathway

Product images:



Coomassie blue staining of purified CACNB1 protein (Cat# [TP307230]). The protein was produced from HEK293T cells transfected with CACNB1 cDNA clone (Cat# [RC207230]) using MegaTran 2.0 (Cat# [TT210002]).