

Product datasheet for PH317910

CACNB1 (NM_199247) Human Mass Spec Standard

Product data:

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| Product Type: | Mass Spec Standards |
| Description: | CACNB1 MS Standard C13 and N15-labeled recombinant protein (NP_954855) |
| Species: | Human |
| Expression Host: | HEK293 |
| Expression cDNA Clone or AA Sequence: | RC217910 |
| Predicted MW: | 57.7 kDa |
| Protein Sequence: | >RC217910 representing NM_199247 Red=Cloning site Green=Tags(s) |

MVQKTSMSRGPYPSPQEIPMEVFDPSQKYSKRKGRFKRSDGSTSSDTSNSFVRQGSAESYTSRPSDS
DVSLEEDREALRKEAERQALAQLEKAKTKPVAFVVRTNVGYNPSPGDEVVQGVAITFEPKDFLHIKEY
NNDWWIGRLVKEGCEVGFIPSPVKLDSLRLQEQKLRQNRLGSSKSGDNSSSLGDVVTGTRRPTPPASG
NEMTNLAFELDPLEEEEEAEELGEQSGSAKTSVSSVTPPPHGRIPFFKKTEHVPPYDVVPSMRPIILV
GPSLKGVEVTDMMQKALFDLKHFRDGRISITRVTADISLAKRSVLNPNPSKHIIERSNTRSSLAEVQSE
IERIFELARTLQVALDADTINHPAQLSKTSLAPIIVYIKITSPKVLQRLIKSRGKSQSKHLNVQIAASE
KLAQCPEMFDIILDENQLEDACEHLAEYLEAYWKATHPPSSSTPPNLLNRTMATAALAASPAPVSNLQV
QVLTSLRRNLGFWGGLESSQRGSVVPQEQEHAM

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

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| 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_954855 |
| RefSeq Size: | 1847 |
| RefSeq ORF: | 1569 |



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Synonyms: CAB1; CACNLB1; CCHLB1

Locus ID: 782

UniProt ID: [Q02641](#), [Q02641-2](#)

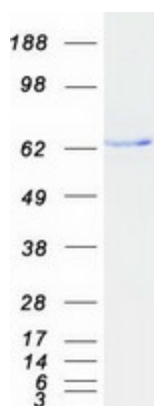
Cytogenetics: 17q12

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# [TP317910]). The protein was produced from HEK293T cells transfected with CACNB1 cDNA clone (Cat# [RC217910]) using MegaTran 2.0 (Cat# [TT210002]).