

Recombinant Human CACNB4 Protein, GST-Tagged

Cat. No. CACNB4-0274H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human CACNB4 full-length ORF (NP_000717.2, 1 a.a. - 520 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	Wheat Germ
Description	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), juvenile myoclonic epilepsy (JME), and episodic ataxia, type 5. [provided by RefSeq, Aug 2016]
Molecular Mass	84.6 kDa
AA Sequence	MSSSSYAKNGTADGPHSPTSQVARGTTTTRSRLKRSDGTTTSTSFILRQGSADSYT SRPSDSDVSLEEDREAIRQEREQQAAIQLERAKSKPVAFAVKTNVSYCGALDEDVPV PSTAISFDAKDFLHIKEKYNNDDWWIGRLVKEGCEIGFIPSPLRLNIRIQQEQRGRFH

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GGKSSGNSSSSLGEMVSGTFRATPTSTAKQKQKVTEHIPPYDVVPSMRPVVLVGPS
LKGYEVTDMMQKALFDLKHFRDGRISITRVADISLAKRSVLNNPSKRAIERSNTRS
SLAEVQSEIERIFELARSLQLVVLADDTINHPAQLIKTSLAPIIVHVKVSSPKVLQRLIKS
RGKSQSKHLNVQLVAADKLAQCPEMFVILDENQLEDACEHLGEYLEAYWRATHT
TSSTPMTPLLGRNLGSTALSPYPTAISGLQSQMRHSNHSTENSPIERRSLMTSDEN
YHNERARKSRNRLSSSSQHSRDHYPLVEEDYPDSYQDITYKPHRNRGSPGGYSHD
SRHRL

Applications

Enzyme-linked Immunoabsorbent Assay
Western Blot (Recombinant protein)
Antibody Production
Protein Array

Notes

Best use within three months from the date of receipt of this protein.

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name

CACNB4 calcium channel,voltage-dependent,beta 4 subunit [Homo sapiens]

Official Symbol

CACNB4

Synonyms

CACNB4;Cavβ4 Calcium Channel;EA5;EJM;calcium channel,voltage-dependent,beta 4 subunit;CAB4;EIG9;EJM4;EJM6;CACNLB4;voltage-dependent L-type calcium channel subunit beta-4;calcium channel voltage-dependent subunit beta 4;dihydropyridine-sensitive L-type,cal

Gene ID

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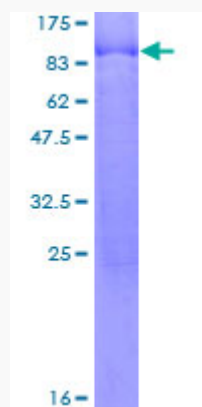
mRNA Refseq NM_000726

Protein Refseq NP_000717

MIM 601949

UniProt ID O00305

**Quality Control
Testing**



12.5% SDS-PAGE Stained with Coomassie Blue.

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