

Product Information

MemDX™ Membrane Protein Human CACNB4 (Calcium voltage-gated channel auxiliary subunit beta 4) Full Length

Cat. No.: **MPC0437K**

This product is for research use only and is not intended for diagnostic use.

This product is a 58.1 kDa Human CACNB4 membrane protein expressed in HEK293. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

Product Specifications

Host Species

Human

Target Protein

CACNB4

Protein Length

Full length

Protein Class

Transporter; Ion channel

Molecular Weight

58.1 kDa

Sequence

MSSSSYAKNGTADGPHSPTSQVARGTTTTRRSRLKRSDGSTTSTSFILRQG
SADSYTSRPSDSDVSLEEDREAIRQEREQQAAIQLERAKSKPVAFVKTN
VSYCGALDEDVVPSTAISFDAKDFLHIKEKYNNDDWWIGRLVKEGCEIGF
IPSPLRLNIRIQEQKRGFRFHGGKSSGNSSSSLGEMVSGTFRATPTSTA
KQKQKVTEHIPPYDVVPSMRPVVLVGPSLKGYEVTDMMQKALFDLKHFRF
DGRISITRVTDISLAKRSVLNPNPSKRAIERSNTRSSLAEVQSEIERIF
ELARSLQLVVLADTINHPAQLIKTSLAPIIVHVKVSSPKVLQRLIKSRG
KSQSKHLNVQLVAADKLAQCPEMFDVILDENQLEDACEHLGEYLEAYWR
ATHHTSSPTMTPLLGRNLGSTALSPYPTAISGLQSQRMRHSNHSTENSPI
ERRSLMTSDENYHNERARKSRNRLSSSSQHSRDHYPLVEEDYPDSYQDTY
KPHRNRGSPGGYSHDSRHRL

Product Description

Expression Systems

HEK293

Tag

Based on specific requirements

Protein Format

Detergent or based on specific requirements

Form

Liquid

Storage

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -70°C or lower. Avoid freeze/thaw cycles.

Target**Target Protein**

CACNB4

Full Name

Calcium voltage-gated channel auxiliary subunit beta 4

Introduction

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.

Alternative Names

EA5; EJM; 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, calcium channel beta-4 subunit; CACNB4; Calcium voltage-gated channel auxiliary subunit beta 4

Gene ID

[785](#)

UniProt ID

[O00305](#)