

Product Information

MemDX™ Membrane Protein Human GABRA1 (Gamma-aminobutyric acid type A receptor subunit alpha1) Full Length

Cat. No.: **MPC0509K**

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

This product is a 51.8 kDa Human GABRA1 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

GABRA1

Protein Length

Full length

Protein Class

Transporter; Ion channel

Molecular Weight

51.8 kDa

TMD

4

Sequence

MRKSPGLSDCLWAWILLSTLTGRSYGQPSLQDELKDNTTVFTRILDRLL
DGYDNRLRPGLGERVTEVKTDIFVTSFGPVSDHDMETIDVFFRQSWKDE
RLKFKGPMTVLRLNNLMASKIWTPDTFFHNGKKSVAHNMTMPNKLLRITE
DGTLLYTMRLTVRAECPMHLEDFPMDAHACPLKFGSYAYTRAENVVYEWTR
EPARSVVVAEDGSRLNQYDLLGQTVDSGIVQSSTGEYVVMTHFHLKRKI
GYFVIQTYLPCIMTVLSQVSFWLNRESVPARTVFGVTTVLMTTLSISA
RNSLPKVAYATAMDWFIACVAFVFSALIEFATVNYFTKRGYAWDGKSVV
PEKPKKVKDPLIKKNNTYAPTATSYTPNLARGDPGLATIAKSATIEPKEV
KPETKPPPEPKKTFNSVSKIDRLSRIAPLLFGIFNLVYWATYLNREPQLK
APTPHQ

Product Description

Expression Systems

HEK293

Tag

FLAG tag at N-terminus and Rhodopsin-1D4 tag at C-terminus

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**

GABRA1

Full Name

Gamma-aminobutyric acid type A receptor subunit alpha1

Introduction

This gene encodes a gamma-aminobutyric acid (GABA) receptor. GABA is the major inhibitory neurotransmitter in the mammalian brain where it acts at GABA-A receptors, which are ligand-gated chloride channels. Chloride conductance of these channels can be modulated by agents such as benzodiazepines that bind to the GABA-A receptor. GABA-A receptors are pentameric, consisting of proteins from several subunit classes: alpha, beta, gamma, delta and rho. Mutations in this gene cause juvenile myoclonic epilepsy and childhood absence epilepsy type 4. Multiple transcript variants encoding the same protein have been identified for this gene.

Alternative Names

EJM; ECA4; EJM5; DEE19; EIEE19; GABA(A) receptor subunit alpha-1; GABA(A) receptor, alpha 1; gamma-aminobutyric acid (GABA) A receptor, alpha 1; gamma-aminobutyric acid type A receptor alpha1 subunit; GABRA1; Gamma-aminobutyric acid type A receptor subunit alpha1

Gene ID

[2554](#)

UniProt ID

[P14867](#)