

Product Information

MemDX™ Membrane Protein Human GABRA4 (Gamma-aminobutyric acid type A receptor subunit alpha4) expressed in E.coli for Antibody Discovery

Cat. No.: **MP1380J**

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

This product is a 41.8 kDa Human GABRA4 membrane protein expressed in E.coli. 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

GABRA4

Protein Length

ECD (36-258aa)

Protein Class

Ion Channel

Molecular Weight

41.8 kDa

Sequence

QNQKEEKLCTENFTRILDSLLDGYDNRLRPGFGGPVTEVKTDIYVTSFGPVSDVEMEYTMDFFRQTWIDKRLKYDGPPIELRLNNM

Product Description

Expression Systems

E.coli

Tag

N-6xHis-SUMO

Form

Liquid or Lyophilized powder

Reconstitution

Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration).

Purity

>90% as determined by SDS-PAGE

Buffer

Liquid: Tris/PBS-based buffer, 5%-50% glycerol

Lyophilized powder: Tris/PBS-based buffer, 6% Trehalose, pH 8.0

Storage

Store at +4°C for up to one week or several months at -80°C

Target**Target Protein**

GABRA4

Full Name

Gamma-aminobutyric acid type A receptor subunit alpha4

Introduction

Gamma-aminobutyric acid (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. At least 16 distinct subunits of GABA-A receptors have been identified. This gene encodes subunit alpha-4, which is involved in the etiology of autism and eventually increases autism risk through interaction with another subunit, gamma-aminobutyric acid receptor beta-1 (GABRB1). Alternatively spliced transcript variants encoding different isoforms have been found in this gene.

Alternative Names

GABA(A) receptor subunit alpha 4; GABA(A) receptor subunit alpha-4; GABR A4; GABRA 4; Gabra4; Gamma aminobutyric acid (GABA) A receptor alpha 4; Gamma aminobutyric acid A receptor alpha 4; Gamma aminobutyric acid receptor alpha 4 subunit; Gamma aminobutyric acid receptor subunit alpha 4; Gamma-aminobutyric acid receptor subunit alpha-4; GBRA4_HUMAN

Gene ID

[2557](#)

UniProt ID

[P48169](#)