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Product Information

MemDX™ Membrane Protein Human ADRB2 (Adrenoceptor beta 2) for Antibody Discovery

Cat. No.: **MP1326J**
This product is for research use only and is not intended for diagnostic use.

This product is a 62.5 kDa Human ADRB2 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
ADRB2

Protein Length
Full-length

Protein Class
GPCR

Molecular Weight
62.5 kDa

TMD
7

Sequence
MGQPGNGSAFLLAPNRSHAPDHDVTQQRDEVWVVGMGIVMSLIVLAIVFGNVLVITAIAKFERLQTVTNYFITSLACADLVMGLAVVP

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

ADRB2

Full Name

Adrenoceptor beta 2

Introduction

This gene encodes beta-2-adrenergic receptor which is a member of the G protein-coupled receptor superfamily. This receptor is directly associated with one of its ultimate effectors, the class C L-type calcium channel Ca(V)1.2. This receptor-channel complex also contains a G protein, an adenylyl cyclase, cAMP-dependent kinase, and the counterbalancing phosphatase, PP2A. The assembly of the signaling complex provides a mechanism that ensures specific and rapid signaling by this G protein-coupled receptor. This receptor is also a transcription regulator of the alpha-synuclein gene, and together, both genes are believed to be associated with risk of Parkinson's Disease. This gene is intronless. Different polymorphic forms, point mutations, and/or downregulation of this gene are associated with nocturnal asthma, obesity, type 2 diabetes and cardiovascular disease.

Alternative Names

ADRB2; ADRB2_HUMAN; ADRB2R; ADRBR; Adrenergic beta 2 receptor surface; Adrenoceptor beta 2 surface; B2AR; BAR; beta 2 adrenoceptor; Beta 2 adrenoreceptor; Beta-2 adrenergic receptor; Beta-2 adrenoceptor; Beta-2 adrenoreceptor; BETA2AR; Catecholamine receptor; OTTHUMP00000160386

Gene ID

154

UniProt ID

P07550

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