

Product Information

MemDX™ Membrane Protein Human ADRB2 (Adrenoceptor beta 2) with GST-tag for

Antibody Discovery

Cat. No.: **MP0022X**

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

This product is a 73 kDa Human ADRB2 membrane protein expressed in *in vitro* wheat germ expression system. 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

Molecular Weight

73 kDa

TMD

7

Sequence

MGQPGNGSAFLLAPNRSHPDHDVTQQRDEVVVVGMGIVMSLIVLAIVFGNVLVITAIKFERLQTVTNYFITSLACADLMGLAVV

Product Description

Application

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

Expression Systems

in vitro wheat germ expression system

Tag

GST-tag at N-terminal

Form

Liquid

Purification

Glutathione Sepharose 4 Fast Flow

Buffer

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

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

ADRB2R; ADRBR; B2AR; BAR; BETA2AR; beta-2 adrenergic receptor; beta-2 adrenoceptor; catecholamine receptor

Gene ID

[154](#)

UniProt ID

[P07550](#)