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Product Information

MemDX™ Membrane Protein Human AGTR2 (Angiotensin II receptor type 2) Full Length

Cat. No.: **MPC0035K**
This product is for research use only and is not intended for diagnostic use.

This product is a 41.1 kDa Human AGTR2 membrane protein expressed in Baculovirus/Insect 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
AGTR2

Protein Length
Full length

Protein Class
GPCR

Molecular Weight
41.1 kDa

TMD
7

Sequence
MKGNSTLATTSKNITSGLHFGLVNISGNNESTLNCSQKPSDKHLDAIPIL
YYIIFVIGFLVNIVVVTLFCCQKGPKKVSSIYIFNLAVADLLLLATLPLW
ATYYSYRYDWLFGPVMCKVFGSFLTLNMFASIFFITCMSVDRYQSVIYPF
LSQRRNPWQASYIVPLVWCMACLSSLPTFYFRDVRTIEYLGVNACIMAFP
PEKYAQWSAGIALMKNILGFIIPLIFIATCYFGIRKHLLKTNSYGKNRIT
RDQVLKMAAAVVLAFIICWLPFHVLTFLDALAWMGVINSCEVIAVIDLAL
PFAILLGFTNSCVNPFLYCFVGNRFQQKLRSVFRVPITWLQGKRESMSCR
KSSSLREMETFVS

Product Description

Expression Systems
Baculovirus/Insect expression system

Tag
Flag tag at N-terminal and 6xHis tag at C-terminal

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

AGTR2

Full Name

Angiotensin II receptor type 2

Introduction

The protein encoded by this gene belongs to the G-protein coupled receptor 1 family, and functions as a receptor for angiotensin II. It is an intergral membrane protein that is highly expressed in fetus and in neonates, but scantily in adult tissues, except brain, adrenal medulla, and atretic ovary. This receptor has been shown to mediate programmed cell death and this apoptotic function may play an important role in developmental biology and pathophysiology. Mutations in this gene are been associated with X-linked cognitive disability. Severe Acute Respiratory Syndrome Coronavirus (SARS-CoV) and SARS-CoV-2 infection results in down-regulation of angiotensin converting enzyme-2 (ACE2) receptors, the effects of which, triggers serious inflammatory lesions in the tissues involved, primarily in the lungs. The inflammatory reaction appears to be mediated by angiotensin II derivatives, including the angiotensin AT2 receptor which has been found to be upregulated in bronchoalveolar lavage samples from Coronavirus disease 2019 (COVID19) patients.

Alternative Names

AT2; ATGR2; MRX88; angiotensin II type-2 receptor; AGTR2; Angiotensin II receptor type 2

Gene ID

186

UniProt ID

P50052