

## Datasheet for ABIN7563152

### **ADRB1 Protein (AA 1-466) (His tag)**



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#### Overview

Quantity:	1 mg
Target:	ADRB1
Protein Characteristics:	AA 1-466
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ADRB1 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

#### Product Details

Purpose:	Custom-made recombinat ADRB1 Protein expressed in mammalian cells.
Sequence:	<p>MGAGALALGA SEPCNLSSAA PLPDGAATAA RLLVLASPPA SLLPPASEGS APLSQQWTAG</p> <p>MGLLLALIVL LIVGVNVLVI VAIKTPRLQ TLTNLFIMSL ASADLVMGLL VVPFGATIVV</p> <p>WGRWEYGSFF CELWTSVDVL CVTASITLC VIALDRYLAI TSPFRYQSL TRARARALVC</p> <p>TVWAISALVS FLPILMHWWR AESDEARRCY NDPKCCDFVT NRAYAIASSV VSFYVPLCIM</p> <p>AFVYLRVFRE AQKQVKKIDS CERRFLGGPA RPPSPEPS PGPPRPADSL ANGRSSKRRP</p> <p>SRLVALREQK ALKTLGIIMG VFTLCWLPFF LANVVKAFHR DLVPDRLFVF FNWLGYANSA</p> <p>FNPIIYCRSP DFRKAFQRL CCARRAACRR RAAHGDRPRA SGCLARAGPP PSPGAPSDDD</p> <p>DDDAGTTPPA RLLEPWTGCN GGTTTVSDS SLDEPGRQGF SSESKEV <b>Sequence without tag.</b></p> <p><b>The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.</b></p>

## Product Details

### Characteristics:

### Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

### Purity:

> 90 % as determined by Bis-Tris Page, Western Blot

### Grade:

custom-made

## Target Details

### Target:

ADRB1

### Alternative Name:

Adrb1 ([ADRB1 Products](#))

### Background:

Beta-1 adrenergic receptor (Beta-1 adrenoreceptor) (Beta-1 adrenoceptor),FUNCTION: Beta-adrenergic receptors mediate the catecholamine-induced activation of adenylate cyclase through the action of G proteins. This receptor binds epinephrine and norepinephrine with approximately equal affinity. Mediates Ras activation through G(s)-alpha- and cAMP-mediated signaling (By similarity). Involved in the regulation of sleep/wake behaviors (PubMed:31473062). {ECO:0000250|UniProtKB:P08588, ECO:0000269|PubMed:31473062}.

### Molecular Weight:

50.5 kDa

### UniProt:

[P34971](#)

### Pathways:

[cAMP Metabolic Process](#), [Cellular Glucan Metabolic Process](#), [Regulation of Muscle Cell Differentiation](#), [Synaptic Membrane](#), [Regulation of G-Protein Coupled Receptor Protein Signaling](#), [G-protein mediated Events](#), [Interaction of EGFR with phospholipase C-gamma](#), [Brown Fat Cell Differentiation](#)

## Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
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Restrictions:	For Research Use only
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## Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months