

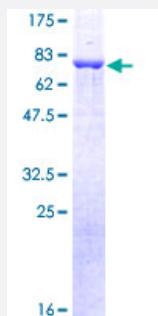
Full-Length

ARRB2 (Human) Recombinant Protein (P01)

Catalog # H00000409-P01

Size 10 ug, 25 ug

Applications



Specification

Product Description

Human ARRB2 full-length ORF (AAH67368.1, 1 a.a. - 409 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MGEKPGTRVFKKSSPNCKLTVYLGKRDFVDHLDKVDPDVGVLVDPDYLKDRKVFVTLTCAFRY
GREDLDVLGLSFRKDLFIATYQAFPPVNP RPPTRLQDRLLRKLQGHAHPFFFTIPQNLPCSVTL
QPGPEDTGKACGVDFEIRAFCAKSLEEKSHKRNSVRLVIRKVQFAPEKPGQPQSAETTRHFLMS
DRSLHLEASLDKELYHGEPLNVNVHVTNNSTKT VKKIKVSVRQYADICLFSTAQYKCPVAQLEQD
DQVSPSSTFCKVYTTPLLSDNREKRGLALDGKLKHEDTNLASSTVKEGANKEVLGILVSYRVKVK
LVVSRGGDVSVELPFVLMHPKPHDHIPLRPQSAAPETDVPVDTNLIEFD TNATDDDIVFEDFAR
LRLKGMKDDDDYDDQLC

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

72.5

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer

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

Storage Instruction

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Note

Best use within three months from the date of receipt of this protein.

Applications

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

Gene Info — ARRB2

Entrez GeneID [409](#)

GeneBank Accession# [BC067368.1](#)

Protein Accession# [AAH67368.1](#)

Gene Name ARRB2

Gene Alias ARB2, ARR2, BARR2, DKFZp686L0365

Gene Description arrestin, beta 2

Omim ID [107941](#)

Gene Ontology [Hyperlink](#)

Gene Summary

Members of arrestin/beta-arrestin protein family are thought to participate in agonist-mediated desensitization of G-protein-coupled receptors and cause specific dampening of cellular responses to stimuli such as hormones, neurotransmitters, or sensory signals. Arrestin beta 2, like arrestin beta 1, was shown to inhibit beta-adrenergic receptor function in vitro. It is expressed at high levels in the central nervous system and may play a role in the regulation of synaptic receptors. Besides the brain, a cDNA for arrestin beta 2 was isolated from thyroid gland, and thus it may also be involved in hormone-specific desensitization of TSH receptors. Multiple alternatively spliced transcript variants have been found for this gene, but the full-length nature of some variants has not been defined. [provided by RefSeq]

Other Designations arrestin 3

Publication Reference

- [Protein kinase C alpha \(PKC {alpha}\) mediates {beta}-arrestin2-dependent nephrin endocytosis in hyperglycemia.](#)

Quack I, Woznowski M, Potthoff SA, Palmer R, Koenigshausen E, Sivritas S, Schiffer M, Stegbauer J, Vonend O, Rump LC, Sellin L.

J Biol Chem 2011 Feb; 286:12959.

Application: IP, Human, HEK 293T cells

Pathway

- [Chemokine signaling pathway](#)
- [Endocytosis](#)
- [MAPK signaling pathway](#)
- [Olfactory transduction](#)

Disease

- [Amphetamine-Related Disorders](#)
- [Asthma](#)
- [Attention Deficit Disorder with Hyperactivity](#)
- [Confusion](#)
- [Disease Models](#)
- [Dyskinesia](#)
- [Genetic Predisposition to Disease](#)
- [Nausea](#)
- [Neoplasms](#)
- [Obesity](#)
- [Ovarian Failure](#)

- [Pain](#)
- [Polycystic Ovary Syndrome](#)
- [Psychoses](#)
- [Puberty](#)
- [Schizophrenia](#)
- [Thrombophilia](#)
- [Thyroid Neoplasms](#)
- [Tobacco Use Disorder](#)