Arrestin Beta 2 (ARRB2) Antibody – Goat Polyclonal

PRODUCT OVERVIEW

Product Name	Arrestin beta 2 (ARRB2), Polyclonal Antibody
Full Product Name	Goat Anti-Arrestin beta 2, Biotinylated Antibody
Product Gene Name	anti-ARRB2 antibody
Product Synonym Names	Goat Anti-Arrestin beta 2 Antibody; ARRB2 antibody; arrestin, beta 2 antibody; ARB2 antibody; ARR2 antibody; BARR2 antibody; arrestin 3 antibody; arrestin beta-2 antibody; arrestin beta 2 antibody; beta-arrestin 2 antibody; DKFZp686L0365 antibody; HGNC:712 antibody
Immunogen Sequence	HDHIPLPRPQ S.
Clonality	Polyclonal
Host	Goat
Species Reactivity	Human, Mouse, Rat Tested: Human, Mouse, Rat Expected from sequence similarity: Human, Mouse, Rat
Form/Format	Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin.
Purity/Purification	Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
Preparation and Storage	Aliquot and store at -20 degree C. Minimize freezing and thawing.
Matching Pairs	Unconjugated Antibody: Arrestin beta 2 (MBS420529) Biotin Conjugated Antibody: Arrestin beta 2 (MBS423674)
Antibody/Peptide Pairs	Arrestin beta 2 peptide (MBS426091) is used for blocking the activity of Arrestin beta 2 antibody (MBS423674)
Molecular Weight	44,392 Da
OMIM	107941
Immunogen	Peptide with sequence C-HDHIPLPRPQS., from the internal region of the protein sequence according to NP_004304.1; NP_945355.1; NP_001244257.1; NP_001244259.1; NP_001244260.1.
Epitope	Internal Region
Note	This antibody is expected to recognise both reported isoforms 1, 2, 3, 5 and 6 (NP_004304.1; NP_945355.1; NP_001244257.1; NP_001244259.1; NP_001244260.1). No crossreactivity is expected with Arrestin beta 1.
ISO Certification	Manufactured in an ISO 9001:2008 Certified Laboratory.
Applications Tested/Suitable for anti-ARRB2 antibody	Peptide ELISA (EIA), Western Blot (WB), Immunoprecipitation (IP), Immunohistochemistry (IHC)
Application Notes for anti-ARRB2 antibody	Western Blot: Approx 45kDa band observed in Human Spleen lysates (calculated MW of 46.1kDa according to NP_004304.1). See non-biotinylated parental product's datasheet for further QC data. Please note that the batch that produced this biotinylated product is different from the batch currently on sale. Recommended concentration: 1-3µg/ml. Peptide ELISA: Antibody detection limit dilution 1:128000.
Related Product Information for anti-ARRB2 antibody	MBS423674 is an antibody targeting ARRB2. Also known as Goat Anti-Arrestin beta 2, Biotinylated Antibody. Reactive in Human, Mouse, Rat Tested: Human, Mouse, Rat Expected from sequence similarity: Human, Mouse, Rat. Host: Goat.

Other Notes	Small volumes of anti-ARRB2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-ARRB2 antibody
Biotinylated (1ug/ml) staining of Human Spleen lysate (35ug protein in RIPA buffer), exactly mirroring its parental non-biotinylated product. Primary incubation was 1 hour. Detected by chemiluminescence, using streptavidin-HRP and using NAP blocker as a substitute for skimmed milk.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ARRB2. It may not necessarily be applicable to this product.

NCBI GI #	4757780
NCBI GeneID	409
NCBI Accession #	NP_004304.1
NCBI Related Accession #	NP_945355.1; NP_001244257.1; NP_001244259.1; NP_001244260.1
UniProt Secondary Accession #	Q0Z8D3; Q2PP19; Q6ICT3; Q8N7Y2; Q9UEQ6; B4DLW0; B5B0C0; B7WPL3; D3DTK2; H0Y688
UniProt Related Accession #	P32121
GenBank Nucleotide #	NM_004313.3
NCBI Official Full Name	beta-arrestin-2 isoform 1
NCBI Official Synonym Full Names	arrestin beta 2
NCBI Official Symbol	ARRB2
NCBI Official Synonym Symbols	ARB2; ARR2; BARR2
UniProt Protein Name	Beta-arrestin-2
UniProt Synonym Protein Names	Arrestin beta-2
Protein Family	Beta-arrestin
UniProt Gene Name	ARRB2
UniProt Synonym Gene Names	ARB2; ARR2
UniProt Entry Name	ARRB2_HUMAN
NCBI Protein Information	beta-arrestin-2

NCBI Summary for ARRB2	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 encoding different isoforms have been found for this gene. [provided by RefSeq, Mar 2012]
UniProt Comments for ARRB2	ARRB2: a member of the arrestin/beta-arrestin protein family. These proteins participate in agonist-mediated desensitization of G-protein-coupled receptors. Acts as a cofactor in the beta-adrenergic receptor kinase (BARK) mediated desensitization of beta-adrenergic receptors. Expressed at high levels in the CNS and peripheral blood leukocytes. Protein type: Adaptor/scaffold Chromosomal Location of Human Ortholog: 17p13 Cellular Component: cytoplasm; cytoplasmic vesicle; cytosol; endocytic vesicle; nucleus; plasma membrane Molecular Function: angiotensin receptor binding; enzyme binding; G-protein-coupled receptor binding; protein binding; protein complex scaffold; receptor binding; ubiquitin protein ligase binding Biological Process: arrestin mediated desensitization of G-protein coupled receptor protein signaling pathway; G-protein coupled receptor internalization; inhibition of NF-kappaB transcription factor; negative regulation of natural killer cell mediated cytotoxicity; negative regulation of protein ubiquitination; platelet activation; positive regulation of protein ubiquitination; positive regulation of receptor internalization; proteasomal ubiquitin-dependent protein catabolic process; protein ubiquitination; receptor internalization; transcription from RNA polymerase II promoter; transforming growth factor beta receptor signaling pathway; Wnt receptor signaling pathway, planar cell polarity pathway
Research Articles on ARRB2	**1.** In this study, we aimed to exploit an in vitro model system of BPH in order to better understand the mechanisms of alpha-AR signaling in prostatic hyperplasia.
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