ARRB2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ARRB2, Polyclonal Antibody
Full Product Name	ARRB2 (C-Term) Rabbit pAb
Product Gene Name	anti-ARRB2 antibody
Product Synonym Names	Beta-arrestin-2; Arrestin beta-2; ARRB2; ARB2; ARR2
Clonality	Polyclonal
Isotype	Ig
Host	Rabbit
Species Reactivity	Human
Form/Format	In PBS supplemented with 0.09% (W/V) Sodium Azide.
Purity/Purification	Affinity Purified
OMIM	107941
3D Structure	ModBase 3D Structure for P32121
Immunogen	This ARRB2 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 264-298 amino acids from human ARRB2.
Cellular Localization	Cell Membrane, Coated Pit, Cytoplasm, Cytoplasmic Vesicle, Membrane, Nucleus
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-ARRB2 antibody	Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-ARRB2 antibody	WB: 1:2000 IHC: 1:25
Related Product Information for anti-ARRB2 antibody	MBS8557652 is an antibody targeting ARRB2. Also known as ARRB2 (C-Term) Rabbit pAb. Reactive in Human. Host: Rabbit.
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.

ADDITIONAL DETAILS

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

NCBI GI #	20141230
NCBI GeneID	409
NCBI Accession #	P32121.2
UniProt Primary Accession #	P32121
UniProt Related Accession #	P32121
NCBI Official Full Name	Beta-arrestin-2

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: postsynaptic membrane; endocytic vesicle; basolateral plasma membrane; postsynaptic density; cytoplasm; plasma membrane; dendritic spine; coated pit; cytoplasmic vesicle; cytosol; nucleus Molecular Function: angiotensin receptor binding; protein domain specific binding; protein kinase B binding; type 2A serotonin receptor binding; follicle stimulating hormone receptor binding; alpha-1B adrenergic receptor binding; alpha-1A adrenergic receptor binding; protein binding; enzyme binding; G-protein-coupled receptor binding; ubiquitin protein ligase binding; protein complex binding; mitogen-activated protein kinase binding; type 1 angiotensin receptor binding; protein complex scaffold; D1 dopamine receptor binding; receptor binding Biological Process: transcription from RNA polymerase II promoter; proteasomal ubiquitin-dependent protein catabolic process; follicle-stimulating hormone signaling pathway; positive regulation of receptor internalization; protein ubiquitination; negative regulation of caspase activity; adult walking behavior; protein transport; receptor internalization; transforming growth factor beta receptor signaling pathway; negative regulation of interleukin-6 production; detection of temperature stimulus involved in sensory perception of pain; arrestin mediated desensitization of G-protein coupled receptor protein signaling pathway; platelet activation; negative regulation of interleukin-12 production; Notch signaling pathway; negative regulation of natural killer cell mediated cytotoxicity; positive regulation of synaptic transmission, dopaminergic; negative regulation of tumor necrosis factor production; negative regulation of interleukin-1 beta production; positive regulation of peptidyl-serine phosphorylation; positive regulation of protein kinase B signaling cascade; positive regulation of peptidyl-tyrosine phosphorylation; G-protein coupled receptor internalization; inhibition of NF-kappaB transcription factor; positive regulation of protein ubiquitination; negative regulation of toll-like receptor signaling pathway; negative regulation of protein ubiquitination; brain development; positive regulation of calcium ion transport; blood coagulation
Research Articles on ARRB2	**1.** the ARRB2 gene polymorphism has an effect on childhood asthma severity and response to treatment

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