Beta-Arrestin-2 (ARRB2) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	Beta-arrestin-2 (ARRB2), ELISA Kit
Full Product Name	Human Beta-arrestin-2 ELISA Kit
Product Gene Name	ARRB2 elisa kit
Product Synonym Names	Beta-arrestin-2; Arrestin beta-2; ARRB2; ARB2; ARR2
Species Reactivity	Human
Samples	Serum, plasma, tissue homogenates and other biological fluids.
Detection Range	0.312-20 ng/mL
Sensitivity	Less than 0.078ng/mL
Preparation and Storage	Store at 4 degree C
Molecular Weight	44,392 Da
OMIM	Z11501 mRNA
3D Structure	ModBase 3D Structure for P32121
Assay Time	3-5h
Sample Volume	100T
Detection Wavelength	450 nm
Related Product Information for ARRB2 elisa kit	MBS9427992 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Beta-arrestin-2 (ARRB2) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing ARRB2. The ELISA analytical biochemical technique of the MBS9427992 kit is based on ARRB2 antibody-ARRB2 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect ARRB2 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, ARRB2. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).
Other Notes	Small volumes of ARRB2 elisa kit 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 #	382545144
NCBI GeneID	409
NCBI Accession #	NP_001244257.1
UniProt Primary Accession #	P32121
UniProt Secondary Accession #	Q0Z8D3; Q2PP19; Q6ICT3; Q8N7Y2; Q9UEQ6; B4DLW0; B5B0C0; B7WPL3; D3DTK2; H0Y688
UniProt Related Accession #	P32121
GenBank Nucleotide #	NM_001257328.1

NCBI Official Full Name	beta-arrestin-2 isoform 3
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
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: 17p13.2 Cellular Component: cytoplasm; cytoplasmic vesicle; cytosol; endocytic vesicle; intracellular membrane-bound organelle; 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 deubiquitination; 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.** These results were consistent with those seen for beta2-AR. Thus, both beta-arrs negatively control AM1 receptor internalization, which depends on the C-tail of CLR.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.

Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/arrb2-human-elisa-kits/beta-arrestin-2/9427992