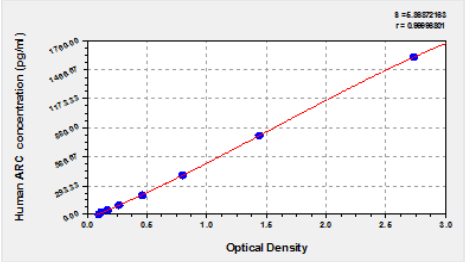
Activity-Regulated Cytoskeleton-Associated (ARC) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	activity-regulated cytoskeleton-associated protein (ARC), ELISA Kit
Full Product Name	Human Activity-regulated cytoskeleton-associated protein, ARC ELISA Kit
Product Gene Name	ARC elisa kit
Product Synonym Names	Human Activity-regulated cytoskeleton-associated protein (ARC) ELISA kit; Arg3.1; KIAA0278; ; activity-regulated cytoskeleton-associated protein
Species Reactivity	Human
Assay Type	Sandwich (Quantitative)
Samples	Serum, plasma, tissue homogenates, cell lysates.
Detection Range	25 pg/ml-1600 pg/ml.
Sensitivity	6.25 pg/ml.
Specificity	This assay has high sensitivity and excellent specificity for detection of human ARC. No significant cross-reactivity or interference between human ARC and analogues was observed.
Preparation and Storage	Unopened test kits should be stored at 2 to 8 degree C upon receipt. Please refer to pdf manual for further storage instructions.
Inter-assay Precision	Inter-assay Precision (Precision between assays): CV%<10%. Three samples of known concentration were tested in twenty assays to assess.
Intra-assay Precision	Intra-assay Precision (Precision within an assay): CV%<8%. Three samples of known concentration were tested twenty times on one plate to assess.
Molecular Weight	45,316 Da
OMIM	612461
3D Structure	ModBase 3D Structure for Q7LC44
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for ARC elisa kit	Principle of the Assay: This assay employs the quantitative sandwich enzyme immunoassay technique. Antibody specific for ARC has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any ARC present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for ARC is added to the wells. After washing, avidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of ARC bound in the initial step. The color development is stopped and the intensity of the color is measured.
Other Notes	Small volumes of ARC 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.
Searchable Terms for ARC purchase	MBS915576 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the activity-regulated cytoskeleton-associated protein (ARC) 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 ARC. The ELISA analytical biochemical technique of the MBS915576 kit is based on ARC antibody-ARC antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect ARC antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, ARC. 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(%).



Typical Testing Data/Standard Curve (for reference only) of ARC elisa kit

ADDITIONAL DETAILS

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

NCBI GI #	8567330
NCBI GeneID	23237
NCBI Accession #	NP_056008.1
UniProt Primary Accession #	Q7LC44
UniProt Secondary Accession #	Q9UJW6; Q9Y469
UniProt Related Accession #	Q7LC44
GenBank Nucleotide #	NM_015193.4
NCBI Official Full Name	activity-regulated cytoskeleton-associated protein
NCBI Official Synonym Full Names	activity-regulated cytoskeleton-associated protein
NCBI Official Symbol	ARC
NCBI Official Synonym Symbols	Arg3.1
UniProt Protein Name	Activity-regulated cytoskeleton-associated protein
UniProt Synonym Protein Names	ARC/ARG3.1; Activity-regulated gene 3.1 protein homolog; Arg3.1
Protein Family	AAA ATPase forming ring-shaped complexes
UniProt Gene Name	ARC
UniProt Synonym Gene Names	KIAA0278; Arg3.1
UniProt Entry Name	ARC_HUMAN
NCBI Protein Information	activity-regulated cytoskeleton-associated protein; ARC/ARG3.1; activity-regulated gene 3.1 protein homolog
UniProt Comments for ARC	ARG3.1: Required for consolidation of synaptic plasticity as well as formation of long-term memory. Regulates endocytosis of AMPA receptors in response to synaptic activity. Required for homeostatic synaptic scaling of AMPA receptors. Plays a role in the regulation of cell morphology and cytoskeletal organization. Required in the stress fiber dynamics and cell migration. Belongs to the ARC/ARG3.1 family. Chromosomal Location of Human Ortholog: 8q24.3 Cellular Component: postsynaptic membrane; cytoplasm; postsynaptic density; plasma membrane; dendritic spine; acrosome; cell junction; endosome; actin cytoskeleton Biological Process: anterior/posterior pattern formation; cell migration; regulation of cell morphogenesis; cytoskeleton organization and biogenesis; endocytosis; learning; endoderm development; regulation of neuronal synaptic plasticity
Research Articles on ARC	**1.** Degradation of Arc by clathrin-localized Triad3A regulates the availability of synaptic AMPA receptors.

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.
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