ARC Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	ARC, Recombinant Protein
Full Product Name	Recombinant Human ARC
Product Gene Name	ARC recombinant protein
Product Synonym Names	ARC; ARC/ARG3.1; Arg3.1; KIAA0278
Host	E Coli
Form/Format	Lyophilized from a 0.2um filtered solution in PBS with 5% trehalose and 0.06% proclin, pH7.4
Purity/Purification	Greater than 90% by SDS-PAGE gel analyses
Preparation and Storage	Store at -20 degree C for 12 months as lyophilized; 2-8 degree C for 1 month under sterile conditions after reconstitution
Molecular Weight	45,316 Da
Sequence Positions	1-212
OMIM	612461
3D Structure	ModBase 3D Structure for Q7LC44
Species	Human
Tag	N-terminal His-IF2DI Tag
Reconstitution	Centrifuge the vial at 10,000rpm for 1 minute, reconstitute at 200ug/ml in sterile distilled water
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for ARC recombinant protein	Western Blot (WB), ELISA (EIA)
Related Product Information for ARC recombinant protein	MBS7614881 is a recombinant protein targeting ARC. Also known as Recombinant Human ARC. Host: E Coli.
Other Notes	Small volumes of ARC recombinant protein 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 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	Arg3.1
UniProt Entry Name	ARC_HUMAN
NCBI Protein Information	activity-regulated cytoskeleton-associated protein; ARC; 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; acrosome; plasma membrane; dendritic spine; 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.** Results show that in response to DNA damage, p53 total levels increase proportionally to the strength of the damage; however, p53 tetramers are formed at a constant rate under the control of ARC protein.
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