ARG1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ARG1, Polyclonal Antibody
Full Product Name	ARG1 (Liver-type arginase, Type I arginase) (MaxLight 650)
Product Gene Name	anti-ARG1 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Rat
Form/Format	Supplied as a liquid in PBS, pH 7.2. Labeled with MaxLight650.
Purity/Purification	Purified by Immunoaffinity chromatography.
Specificity	Recognizes rat ARG1.
Preparation and Storage	May be stored at -20 degree C. Stable for 12 months after receipt at -20 degree C. Reconstitute with sterile ddH2O. Aliquot to avoid repeated freezing and thawing. Store at -20 degree C. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. Further dilutions can be made in assay buffer.
Molecular Weight	34,973 Da
3D Structure	ModBase 3D Structure for P07824
Immunogen	A synthetic peptide corresponding to aa307-323, KREGNHKPETDYLKPPK at the C-terminal of rat ARG1, different from the related mouse sequence by two amino acids.
Conjugate	MaxLight650
Note	Preservative Free
Product Categories/Family for anti-ARG1 antibody	Antibodies; Enzymes
Applications Tested/Suitable for anti-ARG1 antibody	Western Blot (WB)
Application Notes for anti-ARG1 antibody	WB: 0.1-0.5ug/ml Applications are based on unconjugated antibody.
Related Product Information for anti-ARG1 antibody	MBS6404190 is an antibody targeting ARG1. Also known as ARG1 (Liver-type arginase, Type I arginase) (MaxLight 650). Reactive in Rat. Host: Rabbit.
Product References and Citations for anti-ARG1 antibody	1. Cardoso, M. L., Martins, E., Vasconcelos, R., Vilarinho, L., Rocha, J. Identification of a novel R21X mutation in the liver-type arginase gene (ARG1) in four Portuguese patients with argininemia. Hum. Mutat. 14: 355-356, 1999. 2. Grody, W. W., Dodson, A., Klein, D., Kern, R. M., Bassand, P., Cederbaum, S. D. Molecular genetic study of human arginase deficiency. (Abstract) Am. J. Hum. Genet. 45 (suppl.): A191 only, 1989. 3. Haraguchi, Y., Takiguchi, M., Amaya, Y., Kawamoto, S., Matsuda, I., Mori, M. Molecular cloning and nucleotide sequence of cDNA for human liver arginase. Proc. Nat. Acad. Sci. 84: 412-415, 1987.
Other Notes	Small volumes of anti-ARG1 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 ARG1. It may not necessarily be applicable to this product.

NCBI GI #	319754464
NCBI GeneID	10149885
NCBI Accession #	ADV66221.1
UniProt Primary Accession #	P07824
UniProt Secondary Accession #	Q5BK93
NCBI Official Full Name	arginase
NCBI Official Symbol	Deima_0562
UniProt Protein Name	Arginase-1
UniProt Synonym Protein Names	Liver-type arginase; Type I arginase
Protein Family	Arginase
UniProt Gene Name	Arg1
UniProt Entry Name	ARGI1_RAT
NCBI Protein Information	arginase
UniProt Comments for ARG1	ARG1: Homotrimer. By arginine or homoarginine. Belongs to the arginase family. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Hydrolase; EC 3.5.3.1; Amino Acid Metabolism - arginine and proline Cellular Component: extracellular space; mitochondrial outer membrane; neuron projection; cell soma; cytoplasm; nucleus Molecular Function: manganese ion binding; arginase activity Biological Process: mammary gland involution; response to peptide hormone stimulus; maternal process involved in pregnancy; response to lipopolysaccharide; female pregnancy; response to vitamin A; response to selenium ion; response to vitamin E; response to methylmercury; response to wounding; response to axon injury; collagen biosynthetic process; aging; response to drug; response to herbicide; liver development; response to amino acid stimulus; response to manganese ion; response to cadmium ion; arginine metabolic process; response to zinc ion; response to steroid hormone stimulus; arginine catabolic process to ornithine; positive regulation of endothelial cell proliferation; lung development; response to amine stimulus; urea cycle
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