Arginase II (ARG2) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Arginase II (Arg2), Polyclonal Antibody
Full Product Name	APC_Cy7 Linked Polyclonal Antibody to Arginase II (Arg2)
Product Gene Name	anti-Arg2 antibody
Product Synonym Names	Arg2/Arginase II; Kidneytype arginase; Nonhepatic arginase
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Mouse
Form/Format	Liquid; PBS, pH7.4, containing 0.02% NaN3, 50% glycerol.
Purity/Purification	Affinity Chromatography
Concentration	>=0.1mg/mL (Please refer to the vial label for the specific concentration.) (lot specific)
Specificity	The antibody is a rabbit polyclonal antibody raised against Arg2. It has been selected for its ability to recognize Arg2 in immunohistochemical staining and western blotting.
Preparation and Storage	Store at 2 degree C to 8 degree C for frequent use, 20 degree C for 24 months The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 degree C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Matching Pairs	Unconjugated Antibody: Arg2 (MBS2139694) APC-CY7 Conjugated Antibody: Arg2 (MBS2136147)
Molecular Weight	38,878 Da
3D Structure	ModBase 3D Structure for O08691
Supply Chain Verification	Manufactured in a lab with traceable raw materials. Bulk orders can typically be prepared to the customer's specifications, please inquire.
Conjugation	APC Cy7
Product Categories/Family for anti-Arg2 antibody	Infection immunity; Primary, APC/Cy10968 labeled
ISO Certification	Manufactured in an ISO 9001:2015 and ISO 13485:2016 Certified Laboratory.
Applications Tested/Suitable for anti-Arg2 antibody	Western Blot (WB), Immunohistochemistry (IHC), Immunocytochemistry (ICC), Immunoprecipitation (IP)
Application Notes for anti-Arg2 antibody	WB: 0.22ug/mL; 1:2502500 IHC: 520ug/mL; 1:25100 ICC: 520ug/mL; 1:25100
Related Product Information for anti-Arg2 antibody	MBS2136147 is an antibody targeting Arg2. Also known as APC_Cy7 Linked Polyclonal Antibody to Arginase II (Arg2). Reactive in Mouse. Host: Rabbit.
Other Notes	Small volumes of anti-Arg2 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 Arg2. It may not necessarily be applicable to this product.

NCBI GI #	6753110
NCBI GeneID	11847
NCBI Accession #	NP_033835.1
UniProt Primary Accession #	O08691
UniProt Related Accession #	O08691
GenBank Nucleotide #	NM_009705.3
NCBI Official Full Name	arginase-2, mitochondrial
NCBI Official Synonym Full Names	arginase type II
NCBI Official Symbol	Arg2
NCBI Official Synonym Symbols	AII; AU022422
UniProt Protein Name	Arginase-2, mitochondrial
UniProt Synonym Protein Names	Kidney-type arginase; Non-hepatic arginase; Type II arginase
Protein Family	Arginase
UniProt Gene Name	Arg2
UniProt Entry Name	ARGI2_MOUSE
NCBI Protein Information	arginase-2, mitochondrial
UniProt Comments for Arg2	ARG2: May play a role in the regulation of extra-urea cycle arginine metabolism and also in down-regulation of nitric oxide synthesis. Extrahepatic arginase functions to regulate L-arginine bioavailability to NO synthase. Since NO synthase is found in the penile corpus cavernosum smooth muscle, the clitoral corpus cavernosum and the vagina, arginase II plays a role in both male and female sexual arousal. It is therefore a potential target for the treatment of male and female sexual arousal disorders. Belongs to the arginase family. Protein type: EC 3.5.3.1; Mitochondrial; Amino Acid Metabolism - arginine and proline; Hydrolase Cellular Component: mitochondrion Molecular Function: hydrolase activity, acting on carbon-nitrogen (but not peptide) bonds, in linear amidines; hydrolase activity; metal ion binding; arginase activity; nitric-oxide synthase binding Biological Process: striated muscle contraction; negative regulation of nitric-oxide synthase activity; arginine metabolic process; arginine catabolic process to ornithine; negative regulation of striated muscle contraction; urea cycle
Research Articles on Arg2	**1.** high fat diet enhanced arginase-II expression/activity and p38mapk activity, which was associated with eNOS-uncoupling as revealed by decreased nitric oxide
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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