

Arginase 1 Recombinant Antibody | Arg1 recombinant antibody

Rabbit anti-Arginase 1 Recombinant Monoclonal Antibody [BLR161J]

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA213618	Rabbit	Mouse	Immunohistochemistry, Immunoprecipitation, Western Blot

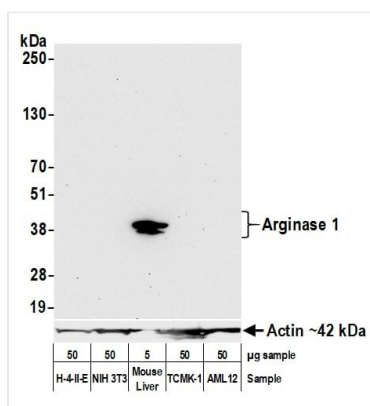
PRODUCT SYNONYMS

Arginase 1; Monoclonal Recombinant Antibody; Rabbit anti-Arginase 1 Recombinant Monoclonal Antibody [BLR161J]; PGIF; type I arginase; liver-type arginase; arginase-1; arginase I; arginase 1; liver; Arg-1; AI256583; AI; Arginase-1; arginase; Arg1 recombinant antibody

PRODUCT SPECIFICATIONS

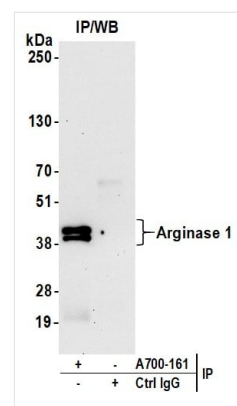
Host	Rabbit
Reactivity	Mouse
Clonality	Monoclonal
Clone Number	BLR161J
Purity/Purification	Purified
Form/Format	Liquid. Whole IgG. Borate Buffered Saline (BBS) pH 8.2 with 0.1% BSA and 0.09% Sodium Azide
Concentration	100ug/ml (varies by lot)
Applicable Applications for Arg1 recombinant antibody	IHC (Immunohistochemistry), IP (Immunoprecipitation), WB (Western Blot)
Immunogen	Residues 1-322 (FL)
Conjugation	Unconjugated
Preparation and Storage	Store at 2-8 degree C Shelf Life: 1 year from date of receipt

IMAGES



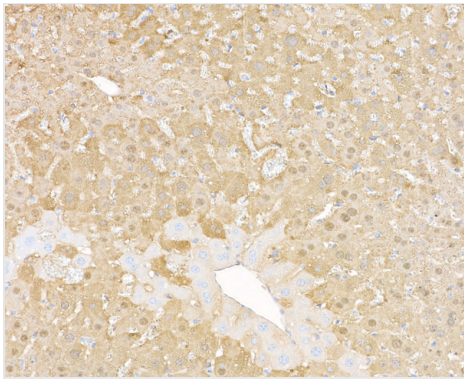
WB (Western Blot)

Detection of mouse Arginase 1 by western blot. Samples: Lysate from from H-4-II-E, NIH 3T3, mouse liver, TCMK-1, and AML12 cells. Antibody: Rabbit anti-Arginase-1 recombinant monoclonal antibody (AAA213618 lot 1) used at 1:1000. Secondary: HRP-conjugated goat anti-rabbit IgG . Detection: Chemiluminescence with an exposure time of 30 seconds. Lower Panel: Rabbit anti-Actin recombinant monoclonal antibody .



IP (Immunoprecipitation)

Detection of mouse Arginase 1 by western blot of immunoprecipitates. Samples: Tissue lysate (1.0 mg per IP reaction; 20% of IP loaded) from mouse liver cells prepared using NETN lysis buffer. Antibody: Rabbit anti-Arginase 1 recombinant monoclonal antibody (AAA213618 lot 1) used at 20 ul/mg lysate. For blotting immunoprecipitated Arginase 1, AAA213618 was used at 1:1000. Detection: Chemiluminescence with an exposure time of 30 seconds.



IHC (Immunohistochemistry)
 Detection of mouse Arginase 1 in FFPE mouse liver by immunohistochemistry. Antibody: Rabbit anti-Arginase 1 recombinant monoclonal antibody (AAA213618 lot 1). Secondary: HRP-conjugated goat anti-rabbit IgG . Substrate: DAB.

ADDITIONAL INFORMATION

Related Product Information for Arg1 recombinant antibody	Arginase1 is a key element of the urea cycle converting L-arginine to urea and L-ornithine, which is further metabolized into metabolites proline and polyamides that drive collagen synthesis and bioenergetic pathways critical for cell proliferation, respectively; the urea cycle takes place primarily in the liver and, to a lesser extent, in the kidneys. Arginase catalyzes the hydrolysis of arginine to ornithine and urea. At least two isoforms of mammalian arginase exist (types I and II) which differ in their tissue distribution, subcellular localization, immunologic crossreactivity and physiologic function. The type I isoform encoded by this gene, is a cytosolic enzyme and expressed predominantly in the liver as a component of the urea cycle. Inherited deficiency of this enzyme results in argininemia, an autosomal recessive disorder characterized by hyperammonemia. [taken from the Universal Protein Resource (UniProt) www.uniprot.org/uniprot/P05089].
Product Categories/Family for Arg1 recombinant antibody	Primary Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	7106255
NCBI GeneID	11846
NCBI Accession #	NP_031508.1
NCBI GenBank Nucleotide #	NM_007482.3
UniProt Accession #	Q61176 ; Q3TB74 ; Q3UEL0 ; Q4FK78 ; Q80VI4
Molecular Weight	34,808 Da
NCBI Official Full Name	arginase-1
NCBI Official Synonym Full Names	arginase, liver
NCBI Official Symbol	Arg1
NCBI Official Synonym Symbols	AI; PGIF; Arg-1; AI256583
NCBI Protein Information	arginase-1
UniProt Protein Name	Arginase-1
UniProt Gene Name	Arg1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.