

Arginase 1 Recombinant Antibody | ARG1 recombinant antibody

Rabbit anti-Arginase 1 Recombinant Monoclonal Antibody [BLR036F]

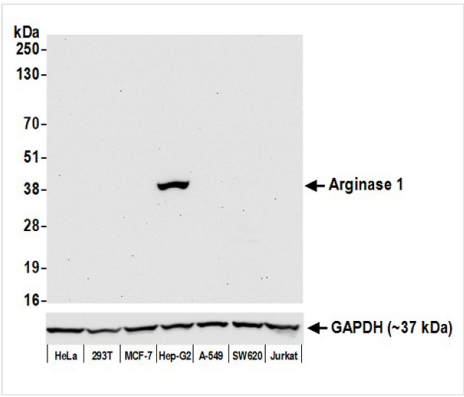
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA23806	Rabbit	Human	Western Blot, Immunoprecipitation, Immunohistochemistry, Immunocytochemistry, Immunohistochemistry

PRODUCT SYNONYMS

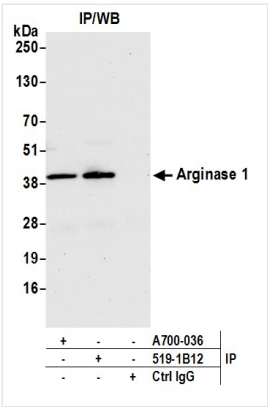
Arginase 1; Monoclonal Recombinant Antibody; Rabbit anti-Arginase 1 Recombinant Monoclonal Antibody [BLR036F]; arginase; liver; arginase-1; liver-type arginase; type I arginase; Arginase-1; arginase 1; ARG1 recombinant antibody

PRODUCT SPECIFICATIONS

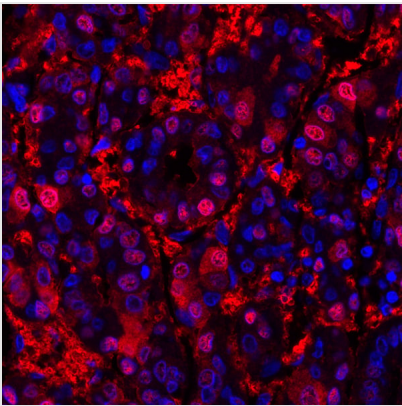
Host	Rabbit
Reactivity	Human
Clonality	Monoclonal
Clone Number	BLR036F
Purity/Purification	Purified
Form/Format	Liquid. Whole IgG. Borate Buffered Saline (BBS) pH 8.2 with 0.1% BSA and 0.09% Sodium Azide
Concentration	250ug/ml (varies by lot)
Applicable Applications for ARG1 recombinant antibody	WB (Western Blot), IP (Immunoprecipitation), IHC (Immunohistochemistry), ICC (Immunocytochemistry), IHC (Immunohistochemistry)
Application Notes	WB: 1:1000 IP: 20 ul/mg lysate IHC: 1:100 to 1:500. Epitope retrieval with citrate buffer pH6.0 is recommended for FFPE tissue sections. ICC: 1:100 to 1:500. Epitope retrieval with citrate buffer pH6.0 is recommended for FFPE cell sections. IHC-IF: 1:100 to 1:500. Epitope retrieval with citrate buffer pH6.0 is recommended for FFPE tissue sections.
Immunogen	Residues 1-322 (FL)
Conjugation	Unconjugated
Preparation and Storage	Store at 2-8 degree C Shelf Life: 1 year from date of receipt



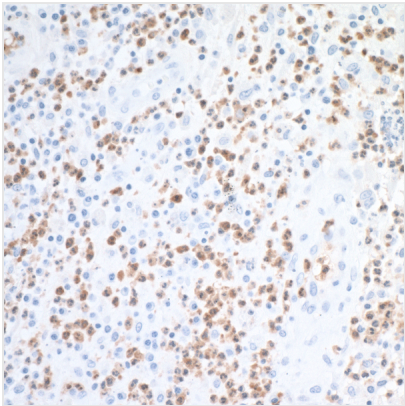
WB (Western Blot)
Detection of human Arginase 1 by western blot. Samples: Whole cell lysate (50 ug) from HeLa, HEK293T, MCF-7, Hep-G2, A-549, SW620, and Jurkat cells prepared using NETN lysis buffer. Antibody: Rabbit anti-Arginase 1 recombinant monoclonal antibody (AAA23806 lot 1) used at 1:1000. Secondary: HRP-conjugated goat anti-rabbit IgG . Detection: Chemiluminescence with an exposure time of 30 seconds. Lower Panel: Rabbit anti-GAPDH .



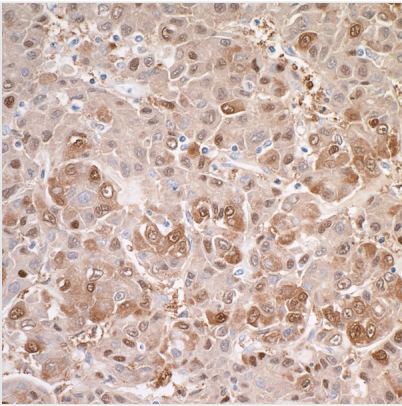
IP (Immunoprecipitation)
Detection of human Arginase 1 by western blot of immunoprecipitates. Samples: Whole cell lysate (1.0 mg per IP reaction; 20% of IP loaded) from Hep-G2 cells prepared using NETN lysis buffer. Antibodies: Rabbit anti-Arginase 1 recombinant monoclonal antibody (AAA23806 lot 1) used for IP at 20 ul per reaction. Arginase 1 was also immunoprecipitated by rabbit anti-Arginase 1 recombinant monoclonal antibody [519-1B12]. For blotting immunoprecipitated Arginase 1, AAA23806 was used at 1:1000. Detection: Chemiluminescence with an exposure time of 10 seconds.



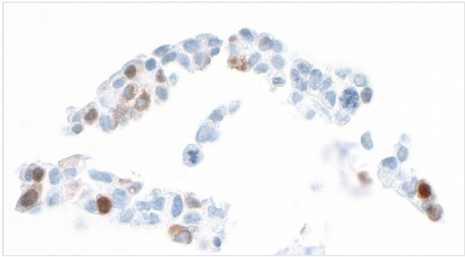
IHC (Immunohistochemistry)
Detection of human Arginase 1 (red) by immunohistochemistry. Sample: FFPE section of human liver carcinoma. Antibody: Rabbit anti-Arginase 1 recombinant monoclonal antibody (AAA23806 lot 1) used at 1:250. Secondary: HRP-conjugated goat anti-rabbit IgG . Substrate: Opal. Counterstain: DAPI (blue).



IHC (Immunohistochemistry)
Detection of human Arginase 1 by immunohistochemistry. Sample: FFPE section of human skin. Antibody: Rabbit anti-Arginase 1 recombinant monoclonal antibody (AAA23806 lot 1) used at 1:250. Secondary: HRP-conjugated goat anti-rabbit IgG . Substrate: DAB.



IHC (Immunohistochemistry)
Detection of human Arginase 1 by immunohistochemistry. Sample: FFPE section of human liver carcinoma. Antibody: Rabbit anti-Arginase 1 recombinant monoclonal antibody (AAA23806 lot 1) used at 1:250. Secondary: HRP-conjugated goat anti-rabbit IgG . Substrate: DAB.



ICC (Immunocytochemistry)
Detection of human Arginase 1 by immunocytochemistry. Sample: FFPE section of Hep-G2 cells. Antibody: Rabbit anti-Arginase 1 recombinant monoclonal antibody (AAA23806 lot 1) used at 1:250. 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 #	10947139
NCBI GeneID	383
NCBI Accession #	NP_000036.2
NCBI GenBank Nucleotide #	NM_000045.3
UniProt Accession #	P05089; Q5JWT5; Q5JWT6; Q8TE72; Q9BS50; A6NEA0
Molecular Weight	34,735 Da
NCBI Official Full Name	arginase-1 isoform 2
NCBI Official Synonym Full Names	arginase, liver
NCBI Official Symbol	ARG1
NCBI Protein Information	arginase-1; type I arginase; liver-type arginase
UniProt Protein Name	Arginase-1
UniProt Gene Name	ARG1
UniProt Entry Name	ARGI1_HUMAN

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.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/arginase-1-recombinant-antibody-clone-blr036f-western-blot-immunoprecipitation-immunohistochemistry-immunocytochemistry-immunohistochemistry-elisa/23806>