## **Arginase 1 Monoclonal Mouse Antibody** (ARG1/1126)



## **Product Description**

This antibody recognizes a protein of 35-38 kDa, which is identified as Arginase 1 (ARG1). Arginase is a manganese metallo-enzyme that catalyzes the hydrolysis of arginine to generate ornithine and urea. Arginase I and II are isoenzymes which differ in subcellular localization, regulation, and possibly function. Arginase I is a cytosolic enzyme, which is expressed mainly in the liver as part of the urea cycle, whereas arginase II is a mitochondrial protein found in a variety of tissues. Antibodies to Arginase 1 label hepatocytes in normal tissues and granulocytes in peripheral blood. Arginase 1 is a sensitive and specific marker for identification of hepatocellular carcinoma.

Primary antibodies are available purified, or with a selection of fluorescent CF® dyes and other labels. CF® dyes offer exceptional brightness and photostability. See the CF® Dye Brochure for more information. Note: Conjugates of blue fluorescent dyes like CF®405S and CF®405M are not recommended for detecting low abundance targets, because blue dyes have lower fluorescence and can give higher non-specific background than other dye colors.

Stock status: Because Biotium offers a large number of antibody and conjugation options, primary antibody conjugates may be made to order. Typical lead times are up to one week for CF® dye and biotin conjugates, and up to 2-3 weeks for fluorescent protein and enzyme conjugates. Please email <a href="mailto:order@biotium.com">order@biotium.com</a> to inquire about stock status and lead times before placing your order.

Catalog number key for antibody number 1126, Anti-Arginase 1 (ARG1/1126)

## **Product attributes**

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research-areas Metabolism #1126 Antibody number #1126 Antibody reactivity (target) Arginase 1 Antibody type Primary Host species Mouse Clonality Monoclonal Clone ARG1/1126 Isotype IgG3, kappa Molecular weight 35-38 kDa Synonyms Arginase 1; ARG1; liver-type arginase; type I arginase Human gene symbol ARG1 Entrez gene ID 383 SwissProt P05089 Unigene 440934 Immunogen Recombinant human ARG1 protein fragment (around aa11-97) (exact sequence is proprietary) Verified antibody applications Antibody target cellular localization Species reactivity Human Antibody application notes Higher concentration may be required for direct delection using primary antibody conjugates than for indirect detection with secondary antibody, Immunohistology (formalin): 2-4 ug/mL for 30 minutes at RT, Staining of formalin-lixed tissues requires boiling itssue sections in 10 mM clitate buffer, pH 6.0, for 10-20 minutes at RT, Staining of formalin-lixed dissues requires boiling itssue sections in 10 mM clitate buffer, pH 6.0, for 10-20 minutes at RT, Staining of formalin-lixed dissues requires boiling itssue sections in 10 mM clitate buffer, pH 6.0, for 10-20 minutes at RT, Staining of formalin-lixed dissues requires boiling itssue sections in 10 mM clitate buffer, pH 6.0, for 10-20 minutes at RT, Staining of formalin-lixed dissues requires boiling itssue sections in 10 mM clitate buffer, pH 6.0, for 10-20 minutes at RT, Staining of formalin-lixed dissues requires boiling itssue sections in 10 mM clitate buffer, pH 6.0, for 10-20 minutes at RT, Staining of formalin-lixed dissues requires boiling itssue sections in 10 mM clitate buffer, pH 6.0, for 10-20 minutes at RT, Staining of formalin-lixed dissues requires boiling itssue sections in 10 mM clitate buffer, pH 6.0, for 10-20 minutes (Diblowed by cooling at RT for 20 minutes, Optimal dilution for a specific application should be determined by user  Positive control 293Tcells. Hepatocellular Carcinoma (HCC).  Shipping condition Room temperature  Storage Conditions  Corjugates: 0.1 mg/mL in PBS	Product attributes	
Antibody type Primary  Host species Mouse  Clonality Monoclonal  Clone ARG1/1126  Isotype IgG3, kappa  Molecular weight 35-38 kDa  Synonyms Arginase 1; ARG1; liver-type arginase; type I arginase  Human gene symbol ARG1  Entrez gene ID 383  SwissProt P05089  Unigene 440934  Immunogen Recombinant human ARG1 protein fragment (around aa11-97) (exact sequence is proprietary)  Verified antibody applications  Antibody target cellular localization  Species reactivity Human  Antibody application notes  Higher concentration may be required for direct detection using primary antibody, Immunohistology (formalin): 2-4 ug/ml. for 30 minutes at RT, Staining of formalin-fixed tissues requires boiling tissue sections in 10 mM citrate buffer, pH 6.0, for 10-20 minutes followed by cooling at RT for 20 minutes, Optimal dilution for a specific application should be determined by user  Positive control 293T cells. Hepatocellular Carcinoma (HCC).  Shipping condition  Storage Conditions  Storage Conditions  Storage Conditions  For research use only (RUO)  Antibody/conjugate formulation in PBS/0.05% BSA, Purified: 0.2 mg/mL in PBS/0.05% BSA, Purified: 0.2 mg/mL in PBS without azide  Validated in protein array  Monospecific  Antibody research areas  Product origin  Product may contain either bovine serum albumin (BSA) from bovine serum (Bos taurus), or recombinant BSA produced in Chinese hamster ovary cells. Inquire for the specific lot.	research-areas	Metabolism
Antibody type Primary  Host species Mouse  Clonality Monoclonal  Clone ARG1/1126  Isotype IgG3, kappa  Molecular weight 35-38 kDa  Synonyms Arginase 1; ARG1; liver-type arginase; type I arginase  Human gene symbol ARG1  Entrez gene ID 383  SwissProt P05089  Unigene 440934  Immunogen Recombinant human ARG1 protein fragment (around aa11-97) (exact sequence is proprietary)  Verified antibody applications  Antibody target cellular localization  Species reactivity Human  Antibody application notes  Higher concentration may be required for direct detection using primary antibody, Immunohistology (formalin): 2-4 ug/mL for 30 minutes at RT. Staining of formalin-lixed tissues requires boiling tissue sections in 10 mM citrate buffer, pH 6.0, for 10-20 minutes followed by cooling at RT for 20 minutes, Optimal dilution for a specific application should be determined by user  Positive control 293Tcells. Hepatocellular Carcinoma (HCC).  Shipping condition Room temperature  Storage Conditions  Stora at 2 to 8 °C, Protect fluorescent conjugates from light, Note: store BSA-free antibodies at -10 to -35 °C  Shelf life Guaranteed for at least 24 months from date of receipt when stored as recommended  Regulatory status  For research use only (RUO)  Antibody/conjugate formulation Pusion.05% aSA0.0.05% aside, HRP conjugates: 0.1 mg/mL in PBS/0.05% BSA, Purified: 0.2 mg/mL in PBS without azide  Validated in protein array Monospecific  Antibody research areas  Product origin Product may contain either bovine serum albumin (BSA) from bovine serum (Bos taurus), or recombinant BSA produced in Chinese hamster ovary cells. Inquire for the specific lot.	Antibody number	#1126
Host species   Mouse	Antibody reactivity (target)	Arginase 1
Clone   ARG1/1126   Isotype   IgG3, kappa   Molecular weight   35-38 kDa   Synonyms   Arginase 1; ARG1; liver-type arginase; type I arginase   Human gene symbol   ARG1   Entrez gene ID   383   SwissProt   P05089   Unigene   440934   Immunogen   Recombinant human ARG1 protein fragment (around aa11-97) (exact sequence is proprietary) Verified antibody applications   Antibody target cellular localization   Species reactivity   Human   Antibody application notes   Higher concentration may be required for direct detection using primary antibody conjugates than for indirect detection with secondary antibody, immunohistology (formalin): 2-4 ug/mL for 30 minutes at RT, Staining of formalin-fixed tissues requires boiling lissue sections in 10 mM citrate buffer, pH 6.0, for 10-20 minutes followed by cooling at RT for 20 minutes, Optimal dilution for a specific application should be determined by user  Positive control   293Tcells. Hepatocellular Carcinoma (HCC). Shipping condition   Room temperature   Storage Conditions   Store at 2 to 8 °C, Protect fluorescent conjugates from light, Note: store BSA-free antibodies at -10 to -35 °C   Shelf life   Guarantee GA are accommended   Guarantee GA are antibodies at -10 to -35 °C   Shelf life   Guarantee GA are antibodies at -10 to -35 °C   Shelf life   Guarantee GA are antibodies at -10 to -35 °C   Shelf life   Guarantee GA are antibodies at -10 to -35 °C   Shelf life   Guarantee GA are antibodies at -10 to -35 °C   Shelf life   Guarantee GA are antibodies at -10 to -35 °C   Shelf life   Guarantee GA are antibodies at -10 to -35 °C   Shelf life   Guarantee GA are antibodies at -10 to -35 °C   Shelf life   Guarantee GA are antibodies at -10 to -35 °C   Shelf life   Guarantee GA are antibodies at -10 to -35 °C   Shelf life   Guarantee GA are antibodies at -10 to -35 °C   Shelf life   Guarantee GA are antibodies at -10 to -35 °C   Shelf life   Guarantee GA are antibodies at -10 to -35 °C   Shelf life   Guarantee GA are antibodies at -10 to -35 °C   Shelf life   Garantee GA are anti	Antibody type	Primary
Sorting   Sort	Host species	Mouse
Isotype   IgG3, kappa	Clonality	Monoclonal
Molecular weight   35-38 kDa	Clone	ARG1/1126
Synonyms	Isotype	IgG3, kappa
Human gene symbol ARG1  Entrez gene ID 383  SwissProt P05089  Unigene 440934  Immunogen Recombinant human ARG1 protein fragment (around aa11-97) (exact sequence is proprietary)  Verified antibody applications  Antibody target cellular (Cytoplasmic)  Species reactivity Human  Antibody application notes Higher concentration may be required for direct detection using primary antibody conjugates than for indirect detection with secondary antibody, immunohistology (formalin): 2-4 ug/mL for 30 minutes at RT, Staining of formalin-fixed tissues requires boiling tissue sections in 10 mM citrate buffer, pH 6.0, for 10-20 minutes followed by cooling at RT for 20 minutes, Optimal dilution for a specific application should be determined by user  Positive control 293Tcells. Hepatocellular Carcinoma (HCC).  Shipping condition Room temperature  Storage Conditions Store at 2 to 8 °C, Protect fluorescent conjugates from light, Note: store BSA-free antibodies at -10 to -35 °C  Shelf life Guaranteed for at least 24 months from date of receipt when stored as recommended  Regulatory status For research use only (RUO)  Antibody/conjugate formulation Conjugates: 0.1 mg/mL in PBS/0.05% BSA, Purified: 0.2 mg/mL in PBS/0.05% BSA, Purified: 0.2 mg/mL in PBS without azide  Validated in protein array Monospecific  Antibody research areas Cancer, Metabolism  Product origin Product may contain either bovine serum albumin (BSA) from bovine serum (Bos taurus), or recombinant BSA produced in Chinese hamster ovary cells. Inquire for the specific lot.	Molecular weight	35-38 kDa
Entrez gene ID 383  SwissProt P05089  Unigene 440934  Immunogen Recombinant human ARG1 protein fragment (around aa11-97) (exact sequence is proprietary)  Verified antibody applications  IHC (FFPE) (verified)  Antibody target cellular localization  Species reactivity Human  Antibody application notes  Higher concentration may be required for direct detection using primary antibody conjugates than for indirect detection with secondary antibody, Immunohistology (formalin): 2-4 ug/mL for 30 minutes at RT, Staining of formalin-fixed tissues requires boiling tissue sections in 10 mM citrate buffer, pH 6.0, for 10-20 minutes followed by cooling at RT for 20 minutes, Optimal dilution for a specific application should be determined by user  Positive control 293Tcells. Hepatocellular Carcinoma (HCC).  Shipping condition  Room temperature  Store at 2 to 8 °C, Protect fluorescent conjugates from light, Note: store BSA-free antibodies at -10 to -35 °C  Shelf life Guaranteed for at least 24 months from date of receipt when stored as recommended  Regulatory status For research use only (RUO)  Antibody/conjugate conjugates: 0.1 mg/mL in PBS/0.05% BSA/0.05% azide, HRP conjugates: 0.1 mg/mL in PBS/0.05% BSA, Purified: 0.2 mg/mL in PBS/0.05% BSA/0.05% azide, Purified, BSA-free: 1 mg/mL in PBS without azide  Validated in protein array Monospecific  Antibody research areas  Product origin Product origin or recombinant BSA produced in Chinese hamster ovary cells. Inquire for the specific lot.	Synonyms	Arginase 1; ARG1; liver-type arginase; type I arginase
SwissProt         P05089           Unigene         440934           Immunogen         Recombinant human ARG1 protein fragment (around aa11-97) (exact sequence is proprietary)           Verified antibody applications         IHC (FFPE) (verified)           Antibody target cellular localization         Cytoplasmic           Species reactivity         Human           Antibody application notes         Higher concentration may be required for direct detection using primary antibody conjugates than for indirect detection with secondary antibody, Immunohistology (formalin): 2-4 ug/mL for 30 minutes at RT, Staining of formalin-fixed dissues requires boiling tissue sections in 10 mM citrate buffer, pH 6.0, for 10-20 minutes followed by cooling at RT for 20 minutes, Optimal dilution for a specific application should be determined by user           Positive control         293Tcells. Hepatocellular Carcinoma (HCC).           Shipping condition         Room temperature           Storage Conditions         Store at 2 to 8 °C, Protect fluorescent conjugates from light, Note: store BSA-free antibodies at -10 to -35 °C           Shelf life         Guaranteed for at least 24 months from date of receipt when stored as recommended           Regulatory status         For research use only (RUO)           Antibody/conjugate formulation         Conjugates: 0.1 mg/mL in PBS/0.05% BSA/0.05% azide, HRP conjugates: 0.1 mg/mL in PBS/0.05% BSA, Purified: 0.2 mg/mL in PBS without azide           Validated in protein array         Monospecific	Human gene symbol	ARG1
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Shipping condition         Room temperature           Storage Conditions         Store at 2 to 8 °C, Protect fluorescent conjugates from light, Note: store BSA-free antibodies at -10 to -35 °C           Shelf life         Guaranteed for at least 24 months from date of receipt when stored as recommended           Regulatory status         For research use only (RUO)           Antibody/conjugate formulation         Conjugates: 0.1 mg/mL in PBS/0.1% BSA/0.05% azide, HRP conjugates: 0.1 mg/mL in PBS/0.05% BSA, Purified: 0.2 mg/mL in PBS/0.05% BSA/0.05% azide, Purified, BSA-free: 1 mg/mL in PBS without azide           Validated in protein array         Monospecific           Antibody research areas         Cancer, Metabolism           Product origin         Product may contain either bovine serum albumin (BSA) from bovine serum (Bos taurus), or recombinant BSA produced in Chinese hamster ovary cells. Inquire for the specific lot.	Antibody application notes	primary antibody conjugates than for indirect detection with secondary antibody, Immunohistology (formalin): 2-4 ug/mL for 30 minutes at RT, Staining of formalin-fixed tissues requires boiling tissue sections in 10 mM citrate buffer, pH 6.0, for 10-20 minutes followed by cooling at RT for 20 minutes, Optimal
Storage Conditions	Positive control	293Tcells. Hepatocellular Carcinoma (HCC).
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stored as recommended  Regulatory status For research use only (RUO)  Antibody/conjugate Conjugates: 0.1 mg/mL in PBS/0.1% BSA/0.05% azide, HRP conjugates: 0.1 mg/mL in PBS/0.05% BSA, Purified: 0.2 mg/mL in PBS/0.05% BSA/0.05% azide, Purified: 0.2 mg/mL in PBS/0.05% BSA/0.05% azide, Purified; 0.2 mg/mL in PBS without azide  Validated in protein array Monospecific  Antibody research areas Cancer, Metabolism  Product origin Product origin array (BSA) from bovine serum (Bos taurus), or recombinant BSA produced in Chinese hamster ovary cells. Inquire for the specific lot.	Storage Conditions	
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tormulation conjugates: 0.1 mg/mL in PBS/0.05% BSA, Purified: 0.2 mg/mL in PBS/0.05% BSA/0.05% azide, Purified: 9.2 mg/mL in PBS without azide  Validated in protein array Monospecific  Antibody research areas Cancer, Metabolism  Product origin Product may contain either bovine serum albumin (BSA) from bovine serum (Bos taurus), or recombinant BSA produced in Chinese hamster ovary cells. Inquire for the specific lot.	Regulatory status	For research use only (RUO)
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Product origin  Product may contain either bovine serum albumin (BSA) from bovine serum (Bos taurus), or recombinant BSA produced in Chinese hamster ovary cells. Inquire for the specific lot.	Validated in protein array	Monospecific
bovine serum (Bos taurus), or recombinant BSA produced in Chinese hamster ovary cells. Inquire for the specific lot.	Antibody research areas	Cancer, Metabolism
Cell/tissue expression Liver	Product origin	bovine serum (Bos taurus), or recombinant BSA produced in
	Cell/tissue expression	Liver

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Antibody # prefix	Conjugation	Ex/Em (nm)	Laser line	Detection channel	Dye Features
BNC04	CF®405S	404/431	405	DAPI (microscopy), AF405	CF®405S Features
BNC88	CF®488A	490/515	488	GFP, FITC	CF®488A Features
BNC68	CF®568	562/583	532, 561	RFP, TRITC	CF®568 Features
BNC94	CF®594	593/614	561	Texas Red®	CF®594 Features
BNC40	CF®640R	642/662	633-640	Cy®5	CF®640R Features
BNC47	CF®647	650/665	633-640	Cy®5	CF®647 Features
BNC74	CF®740	742/767	633-685	775/50	CF®740 Features
BNCB	Biotin	N/A	N/A	N/A	
BNUB	Purified	N/A	N/A	N/A	
BNUM	Purified, BSA-free	N/A	N/A	N/A	

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