bs-8585R **[Primary Antibody]**

Arginase 1 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 383 **SWISS:** P05089

Target: Arginase 1

Immunogen: KLH conjugated synthetic peptide derived from human Arginase 1: 151-220/322.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: Arginase I which is expressed almost exclusively in the liver, catalyzes the conversion of arginine to ornithine and urea . The human arginase I gene, which maps to chromosome 6q23, encodes a 322 amino acid protein. Arginase I exists as a homotrimeric protein and contains a binuclear manganese cluster. Arginase II catalyzes the same reaction as arginase I, but differs in its tissue specificity and subcellular location. Specifically, arginase II localizes to the mitochondria. Arginase II is expressed in non-hepatic tissues, with the highest levels of expression in the kidneys, but, unlike arginase I, is not expressed in liver. The human arginase II gene, which maps to chromosome 14q24.1-q24.3, encodes a 354 amino acid protein. In addition, arginase II contains a putative amino-terminal mitochondrial localization sequence.

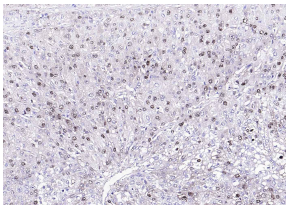
Applications: **IHC-P** (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)
Flow-Cyt (1μg /test)

Reactivity: Human (predicted: Mouse, Rat, Rabbit, Sheep, Cow, Dog)

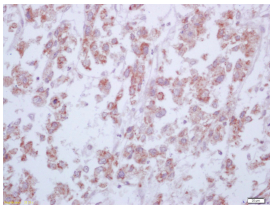
Predicted MW.: 35 kDa

Subcellular Location: Cytoplasm

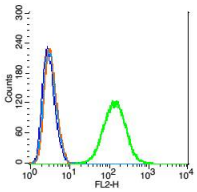
VALIDATION IMAGES



Paraformaldehyde-fixed, paraffin embedded (human liver carcinoma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Arginase 1) Polyclonal Antibody, Unconjugated (bs-8585R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Tissue/cell: human liver carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-Arginase 1 Polyclonal Antibody, Unconjugated(bs-8585R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Blank control(blue): Hep G2 cells (fixed with 2% paraformaldehyde (10 min) , then permeabilized with 90% ice-cold methanol for 30 min on ice). Primary Antibody:Rabbit Anti- CD59 antibody(bs-8585R), Dilution: 0.2μg in 100 μL 1X PBS containing 0.5% BSA; Isotype Control Antibody: Rabbit IgG(orange) ,used under the same conditions); Secondary Antibody: Goat anti-rabbit IgG-PE(white blue), Dilution: 1:200 in 1 X PBS containing 0.5% BSA.

SELECTED CITATIONS

- **[IF=18.962]** Qianhua Feng. et al. Nanoparticle cluster depolymerizes and removes amyloid fibrils for Alzheimer’s disease treatment. NANO TODAY. 2023 Feb;48:101756 IF,IHC ;Mouse. 10.1016/j.nantod.2023.101756
- **[IF=9.5]** Changjun Chen. et al. Engineered Exosome-Functionalized Extracellular Matrix-Mimicking Hydrogel for Promoting Bone Repair in Glucocorticoid-Induced Osteonecrosis of the Femoral Head. ACS APPL MATER INTER.

2023;XXXX(XXX):XXX-XXX WB,IHC,IF,ICC ;Rat,Mouse. 37305922

- **[IF=8.947]** Guanglin Zhang. et al. Soft apoptotic-cell-inspired nanoparticles persistently bind to macrophage membranes and promote anti-inflammatory and pro-healing effects. Acta Biomater. 2021 Jul;: IF ;Mouse. 34245890
- **[IF=9.423]** Fei Chen. et al. Helminth resistance is mediated by differential activation of recruited monocyte-derived alveolar macrophages and arginine depletion. Cell Rep. 2022 Jan;38:110215 FCM ;Mouse. 35021079
- **[IF=7.919]** Chen Y et al. A selected small molecule prevents inflammatory osteolysis through restraining osteoclastogenesis by modulating PTEN activityClin Transl Med.2020 Dec;10(8):e240. WB ;Mouse. 33377656