bs-23837R **[Primary Antibody]**

Arginase 1 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 383 **SWISS:** P05089

Target: Arginase 1

Purification: affinity purified by Protein A

Concentration: 1mg/1ml

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.

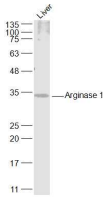
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)

Reactivity: Human, Rat (predicted: Mouse, Rabbit, Pig, Dog)

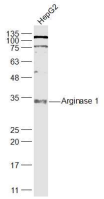
Predicted MW.: 35 kDa

Subcellular Location: Cytoplasm

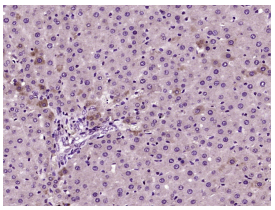
VALIDATION IMAGES



Sample: Liver(Rat) Lysate at 40 ug Primary: Anti-Arginase 1 (bs-23837R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 35 kD Observed band size: 34 kD



Sample: HepG2(Human) Cell Lysate at 30 ug Primary: Anti-Arginase 1 (bs-23837R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 35 kD Observed band size: 34 kD



Paraformaldehyde-fixed, paraffin embedded (Rat liver); 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-23837R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

SELECTED CITATIONS

- **[IF=18]** Li, Danmei. et al. Restoring tendon microenvironment in tendinopathy: Macrophage modulation and tendon regeneration with injectable tendon hydrogel and tendon-derived stem cells exosomes. BIOACT MATER. 2025 Jan22;47:152–169 IHC ;rabbit. 39906648
- **[IF=14]** Haiyan Zhou. et al. Dynamic surface adapts to multiple service stages by orchestrating responsive polymers and functional peptides. BIOMATERIALS. 2023 Jun;:122200 IHC ;Rabbit. 37423184
- **[IF=10.435]** Li, Kanglu. et al. Anti-inflammatory and immunomodulatory effects of the extracellular vesicles derived

from human umbilical cord mesenchymal stem cells on osteoarthritis via M2 macrophages. J Nanobiotechnol. 2022 Dec;20(1):1-20 IHC ;Rat. 35057811

- **[IF=8.7]** Xiaolan Ou. et al. Portable direct spraying porous nanofibrous membranes stent-loaded polymyxin B for treating diabetic wounds with difficult-to-heal gram-negative bacterial infections. MATER TODAY BIO. 2024 Dec;29:101365 IF ;Rat. 39687800
- **[IF=7.7]** Fei Li. et al. Anti-colorectal cancer activity of mannatide from spent brewer's yeast by regulating immune cells and immune function in the tumor microenvironment. INT J BIOL MACROMOL. 2024 Sep;:135531 IHC ;Mouse. 39270895