bsm-34185M **[Primary Antibody]**

Arginase 1 Mouse mAb

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DATASHEET

Host: Mouse
Isotype: IgG
Clonality: Monoclonal
CloneNo.: 7A15
GeneID: 383
SWISS: P05089
Target: Arginase 1
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.

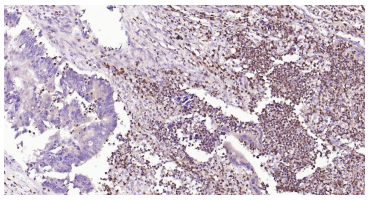
Applications: **IHC-P** (1:50-200)
IHC-F (1:50-200)
IF (1:50-200)

Reactivity: Human

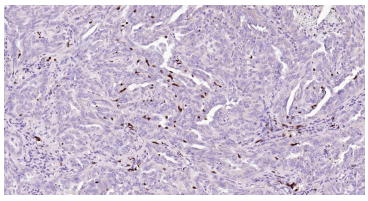
Predicted MW.: 35 kDa

Subcellular Location: Cytoplasm

VALIDATION IMAGES



Paraformaldehyde-fixed, paraffin embedded Human Colon Cancer; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with Arginase 1 Monoclonal Antibody, Unconjugated(bsm-34185M) at 1:200 overnight at 4°C, followed by conjugation to the SP Kit (Mouse, sp-0024) and DAB (C-0010) staining.



Paraformaldehyde-fixed, paraffin embedded Human Lung Cancer; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with Arginase 1 Monoclonal Antibody, Unconjugated(bsm-34185M) at 1:200 overnight at 4°C, followed by conjugation to the SP Kit (Mouse, sp-0024) and DAB (C-0010) staining.

SELECTED CITATIONS

- **[IF=5.4]** Chaode Cen. et al.Construction of a 3D Degradable PLLA/β-TCP/CS Scaffold for Establishing an Induced Membrane Inspired by the Modified Single-Stage Masquelet Technique.ACS BIOMATERIAL SCIENCE & ENGINEERING.2025 Mar 10;11(3):1629-1645. IF ;Rabbit. 10.1021/acsbiomaterials.4c01849