Arginase-1 (PT0364R) PT™ Rabbit mAb

CatalogNo: YM8217 Recombinant

Key Features

Host Species
- Rabbit

Reactivity
- Human,Mouse,Rat

Applications
- WB,IHC,IF,IP,ELISA

MW
- 35kD (Calculated)

35kD (Observed)

Isotype
- IgG,Kappa

Recommended Dilution Ratios

IHC 1:200-1:1000
WB 1:2000-1:10000
IF 1:200-1:1000
ELISA 1:5000-1:20000
IP 1:50-1:200

Storage

Storage*	-15°C to -25°C/1 year(Do not lower than -25°C)
Formulation	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA

Basic Information

Clonality	Monoclonal
Clone Number	PT0364R

Immunogen Information

Specificity	Endogenous

Target Information

Gene name ARG1

Protein Name Arginase-1 (EC 3.5.3.1) (Liver-type arginase) (Type I arginase)

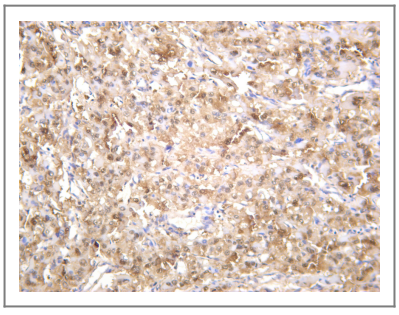
Organism	Gene ID	UniProt ID
Human	383;	P05089;

Cellular Localization Cytoplasm

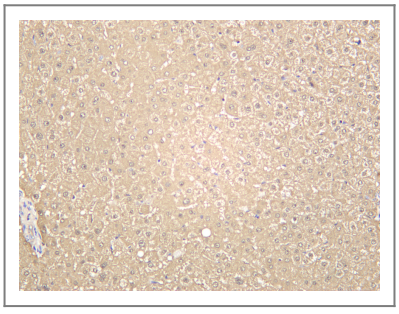
Tissue specificity Within the immune system initially reported to be selectively expressed in granulocytes (polymorphonuclear leukocytes [PMNs]) (PubMed:15546957). Also detected in macrophages mycobacterial granulomas (PubMed:23749634). Expressed in group2 innate lymphoid cells (ILC2s) during lung disease (PubMed:27043409).

Function Catalytic activity:L-arginine + H(2)O = L-ornithine + urea.,cofactor:Binds 2 manganese ions per subunit.,Disease:Defects in ARG1 are the cause of argininemia (ARGIN) [MIM:207800]; also known as hyperargininemia. Argininemia is a rare autosomal recessive disorder of the urea cycle. Arginine is elevated in the blood and cerebrospinal fluid, and periodic hyperammonemia occurs. Clinical manifestations include developmental delay, seizures, mental retardation, hypotonia, ataxia, progressive spastic quadriplegia.,induction:By arginine or homoarginine.,online information:Arginase entry,pathway:Nitrogen metabolism; urea cycle; L-ornithine and urea from L-arginine: step 1/1.,similarity:Belongs to the arginase family.,subunit:Homotrimer.,

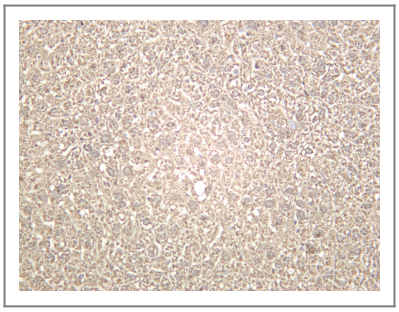
Validation Data



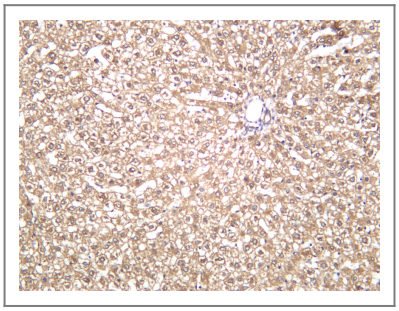
Human hepatocellular carcinoma was stained with anti-Arginase-1 rabbit antibody



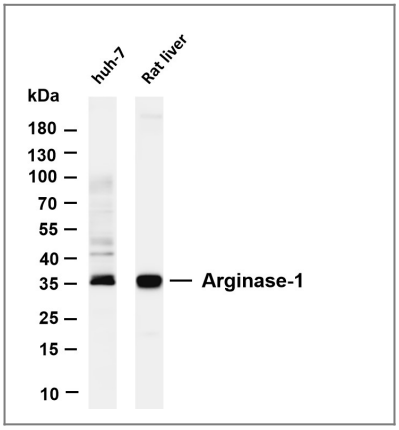
Human liver was stained with anti-Arginase-1 rabbit antibody



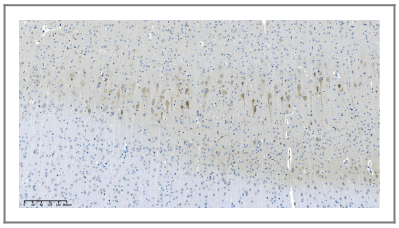
Mouse liver was stained with anti-Arginase-1 rabbit antibody



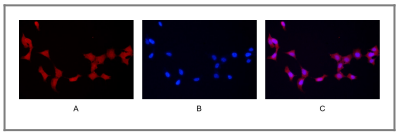
Rat liver was stained with anti-Arginase-1 rabbit antibody



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-Arginase-1 antibody. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: huh-7 Lane 2: Rat liver Predicted band size: 35kDa Observed band size: 35kDa



rat brain was stained with anti-Arginase-1 Rabbit antibody



Immunofluorescence analysis of HEK293. Picture A: Arginase-1 antibody (red). Picture B: DAPI (blue). Picture C: Merge of A+B

Contact information

Orders:	order@immunoway.com
Support:	tech@immunoway.com
Telephone:	877-594-3616 (Toll Free), 408-747-0185
Website:	http://www.immunoway.com
Address:	2200 Ringwood Ave San Jose, CA 95131 USA

Please scan the QR code to access additional product information: **Arginase-1 (PT0364R) PT™ Rabbit mAb**