

Arginase-1 Antibody

Datasheet

For Research Use Only

Description	Catalog No.	Size
Arginase-1 Concentrate	FP-A002-01	0.1 ml
Arginase-1 Concentrate	FP-A002-10	1 ml
Arginase-1 Predilute	FP-A002-70	7ml
Arginase-1 Predilute	FP-A002-250	25ml

Description

Arginase-1, encoded by the ARG1 gene, is a cytosolic metalloenzyme expressed predominantly in hepatocytes which plays a key role in the urea cycle by catalyzing the hydrolysis of arginine to ornithine and urea. Argininemia is an inherited autosomal recessive disorder characterized by a buildup of arginine and ammonia in the blood. Anti-Arginase-1 is highly specific for hepatocytes, and is therefore a sensitive and specific marker of benign and malignant hepatic tumors.

Specifications

Clone	IHC400
Source	Mouse Monoclonal
Applications	IHC (P)
Formulation	Tris Buffer, pH 7.3 - 7.7, with 1% BSA and <0.1% Sodium Azide

IHC Procedure*

Positive Control Tissue	Liver
Dilution Range	1:100 – 1:200
Pretreatment	Perform heat-induced epitope retrieval (HIER) at pH 9 for 10 to 30 minutes
Incubation Time and Temp	10 to 30 minutes at room temperature
Detection	Refer to the corresponding user manual for detection system

Result

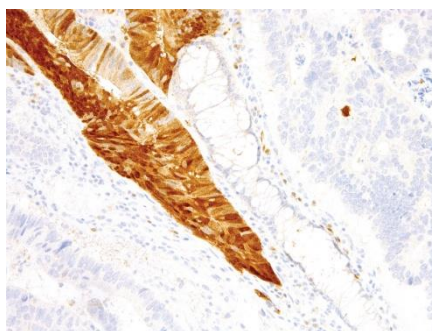


Figure. Arginase-1 on Colon

Storage and Handling

Must store the reagent at 2-8 °C. Do not freeze. Do not use the reagent after expiration date on vial. To ensure proper stability and delivery of the antibody after each run, replace the cap and immediately place the bottle in a refrigerator in an upright position. Positive and negative controls should be simultaneously run with unknown specimens, as there are no conclusive characteristics to suggest instability of the antibody.

Precautions

The product is for research use only. Do not use for diagnosis purpose. Ensure proper handling procedures are used with all reagents. Always wear laboratory coats, disposable gloves, and other appropriate laboratory equipment when handling reagents. Do not ingest reagents, and avoid contact with eyes and mucous membranes. Wash eyes with copious amounts of water if contact occurs.

References

1. **Morris SM Jr.** “Recent advances in arginine metabolism: roles and regulation of the arginases.” *Br J Pharmacol.* 2009; 157:922–930.
2. **Uchino T,** et al. “Molecular basis of phenotypic variation in patients with argininemia.” *Human Genetics.* 2009; 96:255–60.
3. **Yan BC,** et al. “Arginase-1: a new immunohistochemical marker of hepatocytes and hepatocellular neoplasms.” *Am J Surg Pathol.* 2010; 34:1147-1154.

Technical Support

Contact FemtoPath Technical Support at +886232338585 or email to femtopath@hongjing.com.tw for assistance with more questions regarding this product.