

**Rabbit Anti-Arginase-1/ARG-1 [EP261]: RM0279, EM0279RTU7**

**Intended Use:** For Research Use Only

**Description:** Arginase is a manganese metalloenzyme that catalyzes the hydrolysis of arginine to generate ornithine and urea. Arginase I and II are isoenzymes which differ in subcellular localization, regulation, and possibly function. Arginase I is a cytosolic enzyme, which is expressed mainly in the liver as part of the urea cycle, whereas arginase II is a mitochondrial protein found in a variety of tissues. Antibody to ARG-1 labels hepatocytes in normal tissues and granulocytes in peripheral blood. ARG-1 is a sensitive and specific marker for identification of hepatocellular carcinoma.

**Specifications:**

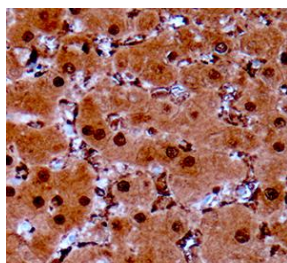
Clone: EP261  
Source: Rabbit  
Isotype: IgG  
Reactivity: Human  
Localization: Cytoplasm, nucleus  
Formulation: Antibody in PBS pH7.4, containing BSA and  $\leq 0.09\%$  sodium azide (NaN<sub>3</sub>)  
Storage: Store at 2°- 8°C  
Applications: IHC  
Package:

Description	Catalog No.	Size
Arginase-1/ARG-1 Concentrated	RM0279	1 ml
Arginase-1/ARG-1 Prediluted	RM0279RTU7	7 ml

**IHC Procedure\*:**

Positive Control Tissue: HCC, normal liver  
Concentrated Dilution: 50-200  
Pretreatment: EDTA pH8.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C  
Incubation Time and Temp: 30-60 minutes @ RT  
Detection: Refer to the detection system manual

\* Result should be confirmed by an established diagnostic procedure.



FFPE human liver stained with anti-Arginase-1 using DAB

**References:**

1. Arginase-1 is a novel immunohistochemical marker of hepatocellular differentiation. Ordóñez NG. Adv Anat Pathol 21:285-90, 2014.
2. Liver-specific knockout of arginase-1 leads to a profound phenotype similar to inducible whole body arginase-1 deficiency. Ballantyne LL, et al. Mol Genet Metab Rep 9:54-60, 2016.
3. Inducible arginase 1 deficiency in mice leads to hyperargininemia and altered amino acid metabolism. Sin YY, et al. PLoS One 8:e80001, 2013.

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Rev. A