Arginase-1
Recombinant Rabbit Monoclonal Antibody
Product Datasheet

Catalog# BX50180
Clone# BP6158

Predicted Molecular Wt:	35kDa	**Purity:**	ProA affinity purified IgG
Species Cross-reactivity:	Human	**Form:**	Liquid
Applications:	IHC-P	**Swissprot ID:**	P05089

Background:

Argininase 1 (ARG-1) is a new hepatocyte marker and a key enzyme in the liver urea cycle. It is well expressed in normal hepatic nuclei, but not in other normal tissues, and is highly expressed in hepatocellular carcinoma with different degrees of differentiation. The better the differentiation is, the higher the positive rate is, and it is superior to HepPar 1 in poorly differentiated hepatocellular carcinoma. It is more sensitive than AFP and HepPar 1 in the diagnosis of hepatocellular carcinoma, and is often used in combination with Glypican3 for hepatocellular carcinoma and metastatic carcinoma.

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.
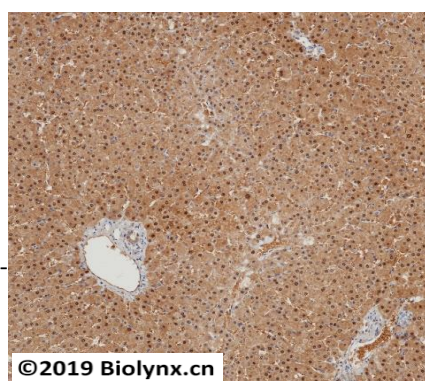
Subcellular location:

Nucleus & Cytoplasm

Recommended method:

Heat induced epitope retrieval with Tris-EDTA buffer (pH 9.0), primary antibody incubate at RT (18°C-25°C) for 30 minutes.

Immunogen:

Synthetic peptide within Human Liver Arginase aa 300-400. The exact sequence is proprietary.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections analysis of human liver tissue labelling Arginase-1 with BP6158. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9.0

Storage Buffer:

PBS 59%, Sodium azide 0.01%, Glycerol 40%, BSA 0.05%.

Storage conditions:

-20°C

Storage instructions:

Shipped on blue ice. Upon delivery, aliquot, and store at -20°C. Avoid freeze / thaw cycles.

Recommended Dilutions:

IHC-P: 1:100-1:200

Background References:

1. Azambuja, J. H., etal. Int. J. Mol. Sci. 2020, 21, 3990.

2. Chen DA, et al. J Clin Pathol 2020;0:1–4.

Product QC'd by:

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