



Mouse Anti-Human Arginase-1 monoclonal antibody, clone JID511 (CABT-L2796)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	This antibody is intended for qualified laboratories to qualitatively identify by light microscopy the presence of associated antigens in sections of formalin-fixed, paraffin-embedded tissue sections using IHC test methods.
Specificity	Human Arginase-1
Isotype	IgG
Source/Host	Mouse
Species Reactivity	Human
Clone	JID511
Conjugate	Unconjugated
Applications	IHC
Reconstitution	<p>The prediluted antibody does not require any mixing, dilution, reconstitution, or titration; the antibody is ready-to-use and optimized for staining.</p> <p>The concentrated antibody requires dilution in the optimized buffer, to the recommended working dilution range.</p>
Positive Control	Liver
Format	Liquid
Size	Predilute: 7 ml, Concentrate: 100 µl, Concentrate: 1 ml
Buffer	<p>Predilute: Antibody Diluent Buffer</p> <p>Concentrate: Tris Buffer, pH 7.3 - 7.7, with 1% BSA</p>

Preservative	< 0.1% Sodium Azide
Storage	Store at 2-8°C. Do not freeze.
Ship	Wet ice

BACKGROUND

Introduction	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.
Keywords	ARG1;arginase 1;arginase-1;arginase, liver;type I arginase;AI type I arginase;liver-type arginase;

GENE INFORMATION

Gene Name	ARG1 arginase 1 [Homo sapiens (human)]
Official Symbol	ARG1
Synonyms	ARG1; arginase 1; arginase-1; arginase, liver; type I arginase; liver-type arginase;
Entrez Gene ID	383
Protein Refseq	NP_000036
UniProt ID	P05089
Chromosome Location	6q23
Pathway	ATF-2 transcription factor network; Amoebiasis; Arginine and proline metabolism; Biosynthesis of amino acids; IL4-mediated signaling events; Metabolic pathways; Metabolism; Metabolism of amino acids and derivatives;
Function	arginase activity; manganese ion binding;