

## Anti-liver Arginase/ARG1 Antibody Picoband® FITC Conjugated

Catalog Number: A01106-FITC

### About ARG1

ARG1 (arginase, live) is a cytosolic enzyme and expressed predominantly in the liver as a component of the urea cycle. The isoform encoded by ARG1, referred to as the liver, or A-I, isoform, contributes 98% of the arginase activity in liver but is also present in red cells. Using a rat liver ARG1 cDNA clone to probe a human liver cDNA library, Haraguchi et al. (1987) isolated and characterized a cDNA corresponding to the ARG1 gene. The ARG1 gene is mapped on 6q23.2 and the arginase gene contains 8 exons. By immunologic studies, 90% of the arginase in red blood cell and liver was precipitated by the antibody, whereas only 50% of the arginase in kidney, brain, and the gastrointestinal tract reacted with it. Inherited deficiency of this enzyme results in argininemia, an autosomal recessive disorder characterized by hyperammonemia. Two transcript variants encoding different isoforms have been found for this gene.

### Overview

Product Name	Anti-liver Arginase/ARG1 Antibody Picoband® FITC Conjugated
Reactive Species	Human, Monkey, Mouse, Rat
Application	Recommended applications are based on the parent unconjugated antibody (ELISA, IHC, WB). Customers may select suitable applications according to their experimental needs.
Clonality	Polyclonal
Formulation	Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na <sub>2</sub> HPO <sub>4</sub> , 0.02% Na <sub>3</sub> N.
Storage Instructions	At -20°C for one year from date of receipt. Avoid repeated freezing and thawing. Protect from light.
Host	Rabbit
Uniprot ID	P05089

### Technical Details

Immunogen	E.coli-derived human liver Arginase/ARG1 recombinant protein (Position: E25-D183).
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Rabbit IgG
Form	Liquid
Concentration	0.5 mg/mL
Purification	Immunogen affinity purified.
Conjugate	FITC Excitation Wavelength: 495 nm Emission Wavelength: 525 nm

Suggested Dilutions

Optimal dilutions should be determined by end users.

### 3 Publications Citing This Product

1. PubMed ID: 32908940, Liao H, Li Y, Zhang X, Zhao X, Zheng D, Shen D, Li R. Protective Effects of Thalidomide on High-Glucose-Induced Podocyte Injury through In Vitro Modulation of Macrophage M1/M2 Differentiation. *J Immunol Res.* 2020 Aug 27;2020:8263598. doi:10.1155/2020/8263598. PMID

2. PubMed ID: 28615349, CFTR protects against vascular inflammation and atherogenesis in apolipoprotein E-deficient mice

3. PubMed ID: 30151392, Panax notoginseng Saponins Regulate Macrophage Polarization under Hyperglycemic Condition via NF- $\kappa$ B Signaling Pathway

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