

## **ARG1** Polyclonal Antibody

Rabbit Anti Human Polyclonal Antibody Catalog # ABV11726

## **Specification**

## **ARG1 Polyclonal Antibody - Product Information**

Application FC, IHC, WB
Primary Accession P05089
Reactivity Human
Host Rabbit
Clonality Polyclonal
Isotype Rabbit IgG
Calculated MW 34735

## **ARG1 Polyclonal Antibody - Additional Information**

Gene ID 383

Positive Control WB: MDA-MB231 cell lysate, FC:

MDA-MBA231, IHC: Hepatocarcinoma

Application & Usage WB; 1:1000, IHC-P; 1:50~100, FC; 1:10~50

**Other Names** 

Arginase-1, Liver-type arginase, Type I arginase, ARG1

Target/Specificity

ARG1

**Antibody Form** 

Liquid

**Appearance** 

Colorless liquid

**Formulation** 

PBS with 0.09% (W/V) sodium azide.

Handling

The antibody solution should be gently mixed before use.

**Reconstitution & Storage** 

-20 °C

**Background Descriptions** 

## **Precautions**

ARG1 Polyclonal Antibody is for research use only and not for use in diagnostic or therapeutic procedures.



## **ARG1 Polyclonal Antibody - Protein Information**

#### Name ARG1

#### **Function**

Key element of the urea cycle converting L-arginine to urea and L-ornithine, which is further metabolized into metabolites proline and polyamides that drive collagen synthesis and bioenergetic pathways critical for cell proliferation, respectively; the urea cycle takes place primarily in the liver and, to a lesser extent, in the kidneys.

### **Cellular Location**

Cytoplasm. Cytoplasmic granule. Note=Localized in azurophil granules of neutrophils (PubMed:15546957)

## **Tissue Location**

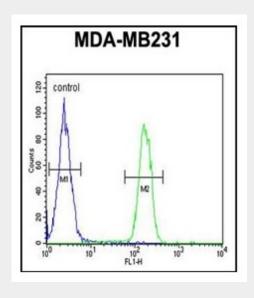
Within the immune system initially reported to be selectively expressed in granulocytes (polymorphonuclear leukocytes [PMNs]) (PubMed:15546957). Also detected in macrophages mycobacterial granulomas (PubMed:23749634). Expressed in group2 innate lymphoid cells (ILC2s) during lung disease (PubMed:27043409)

# **ARG1 Polyclonal Antibody - Protocols**

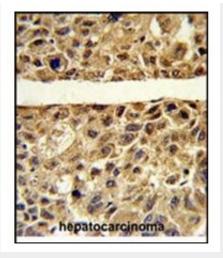
Provided below are standard protocols that you may find useful for product applications.

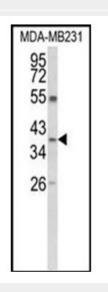
- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

# **ARG1 Polyclonal Antibody - Images**









# **ARG1 Polyclonal Antibody - Background**

Arginase catalyzes the hydrolysis of arginine to ornithine and urea. At least two isoforms of mammalian arginase exist (types I and II) which differ in their tissue distribution, subcellular localization, immunologic crossreactivity and physiologic function. The type I isoform encoded by this gene, is a cytosolic enzyme and expressed predominantly in the liver as a component of the urea cycle. Inherited deficiency of this enzyme results in argininemia, an autosomal recessive disorder characterized by hyperammonemia.