

# ARG1 Polyclonal Antibody

Rabbit Anti Human Polyclonal Antibody

Catalog # ABV11726

## Product Information

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|--------------------------|------------------------|
| <b>Application</b>       | WB, IHC, FC            |
| <b>Primary Accession</b> | <a href="#">P05089</a> |
| <b>Reactivity</b>        | Human                  |
| <b>Host</b>              | Rabbit                 |
| <b>Clonality</b>         | Polyclonal             |
| <b>Isotype</b>           | Rabbit IgG             |
| <b>Calculated MW</b>     | 34735                  |

## Additional Information

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|-------------------------------------|------------------------------------------------------------------------------------------------------------|
| <b>Gene ID</b>                      | 383                                                                                                        |
| <b>Positive Control</b>             | WB: MDA-MB231 cell lysate, FC: MDA-MBA231, IHC: Hepatocarcinoma                                            |
| <b>Application &amp; Usage</b>      | WB; 1:1000, IHC-P; 1:50~100, FC; 1:10~50                                                                   |
| <b>Other Names</b>                  | Arginase-1, Liver-type arginase, Type I arginase, ARG1                                                     |
| <b>Target/Specificity</b>           | ARG1                                                                                                       |
| <b>Antibody Form</b>                | Liquid                                                                                                     |
| <b>Appearance</b>                   | Colorless liquid                                                                                           |
| <b>Formulation</b>                  | PBS with 0.09% (W/V) sodium azide.                                                                         |
| <b>Handling</b>                     | The antibody solution should be gently mixed before use.                                                   |
| <b>Reconstitution &amp; Storage</b> | -20 °C                                                                                                     |
| <b>Background Descriptions</b>      |                                                                                                            |
| <b>Precautions</b>                  | ARG1 Polyclonal Antibody is for research use only and not for use in diagnostic or therapeutic procedures. |

## Protein Information

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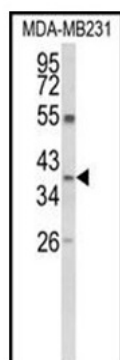
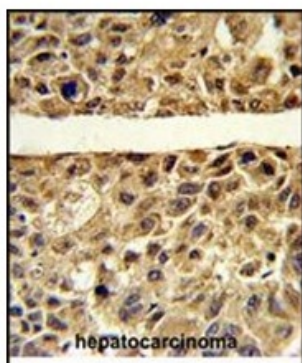
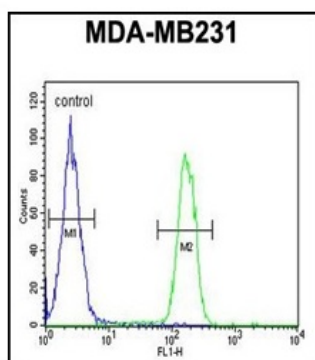
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|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Name</b>     | ARG1                                                                                                                                                                                                                                                                                                                                                |
| <b>Function</b> | 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. |

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|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Cellular Location</b> | Cytoplasm. Cytoplasmic granule. Note=Localized in azurophil granules of neutrophils (PubMed:15546957)                                                                                                                                                                                                             |
| <b>Tissue Location</b>   | 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) |

## 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.

## Images



Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.