

# Human Arginase 2/ARG2 antibody

Catalog Number: ATGA0539

## PRODUCT INFORMATION

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**Catalog number**

ATGA0539

**Clone No.**

AT7F8

**Product type**

Monoclonal antibody

**UnitProt No.**

P78540

**NCBI Accession No.**

NP\_001163

**Alternative Names**

Arginase-2 type II, Kidney arginase, Non-hepatic arginase, Arginase-2, type II Arginase IImitochondrial, Kidney type arginase, Non hepatic arginase

**Additional Information**

This product was produced from tissue culture supernatant.

## PRODUCT SPECIFICATION

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**Antibody Host**

Mouse

**Reacts With**

Human

**Concentration**

1mg/ml (determined by BCA assay)

**Formulation**

Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

**Immunogen**

Recombinant human ARG2 (23-354aa) purified from E. coli

**Isotype**

IgG1 kappa

**Purification Note**

By protein-A affinity chromatography

**Application**

ELISA, WB

**Usage**

The antibody has been tested by ELISA and Western blot analysis to assure specificity and reactivity. Since

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application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

## Storage

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

Arginase 2 catalyzes the same reaction as arginase 1, but differs in its tissue specificity and subcellular location. Specifically, arginase 2 localizes to the mitochondria. Arginase 2 is expressed in non-hepatic tissues, with the highest levels of expression in the kidneys, but, unlike arginase 1, is not expressed in liver.

### General References

Watts JA., et al. (2011) *Pulm Pharmacol Ther.* 24(4): 407-413.

Tadie JM., et al. (2008) *Am J Physiol Lung Cell Mol Physiol.* 294(3): 489-497.

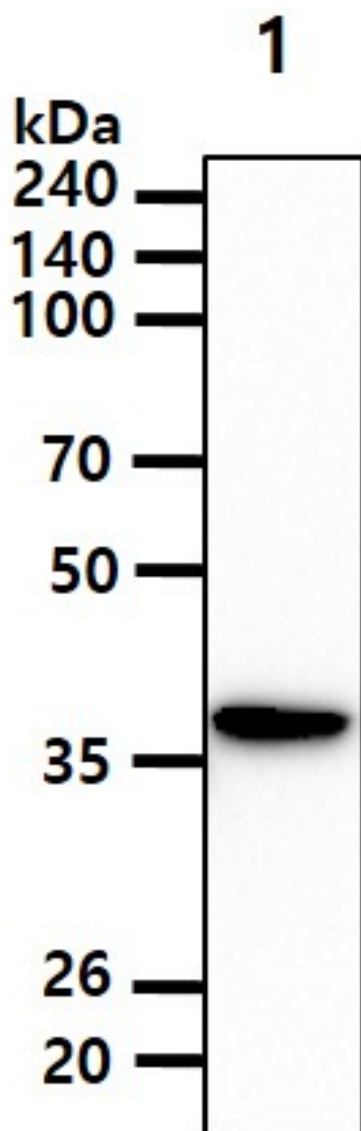
## DATA

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### Western blot analysis (WB)

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The cell lysate(40ug) was resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human ARG2 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.  
Lane 1.: SW480 cell lysate