

Human Arginase 2/ARG2 antibody

Catalog Number: ATGA0389

PRODUCT INFORMATION

Catalog number

ATGA0389

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 II mitochondrial, Kidney type arginase, Non hepatic arginase.

PRODUCT SPECIFICATION

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, ICC/IF, FACS

Usage

The antibody has been tested by ELISA, Western blot analysis, Flow cytometry and ICC/IF to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

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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

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.

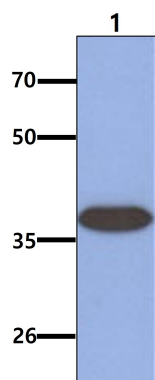
General References

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

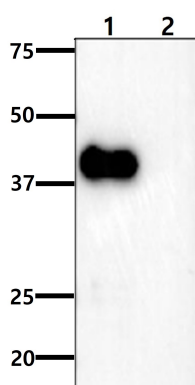
Tadie JM., et al. (2008) Am J Physiol Lung Cell Mol Physiol. 294(3): 489-497.

DATA

Western blot analysis (WB)



The SW480 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

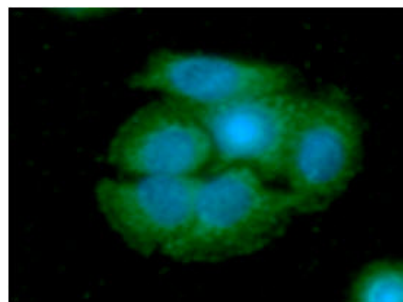


The recombinant proteins (50ng) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human ARG2 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.
Lane 1.: ARG2 recombinant protein (ATGP0591)
Lane 2.: ARG1 recombinant protein (ATGP0564)

Immunocytochemistry/Immunofluorescence (ICC/IF)

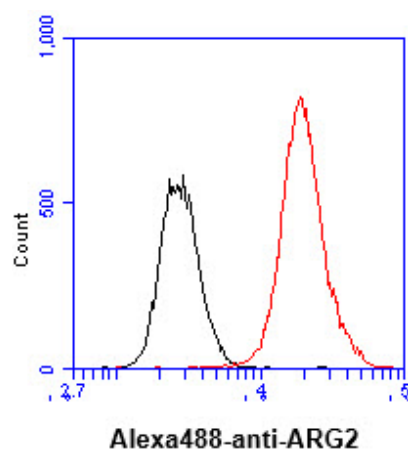
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ICC/IF analysis of ARG2 in SW480 cells line, stained with DAPI (Blue) for nucleus staining and monoclonal anti-human ARG2 antibody (1:100) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green).

Flow cytometry (FACS)



Flow cytometry analysis of ARG2 in SW480 cell line, staining at 2-5ug for 1x10⁶ cells (red line). The secondary antibody used goat anti-mouse IgG Alexa fluor 488 conjugate. Isotype control antibody was mouse IgG (black line).