

Rabbit Arg2 Polyclonal Antibody | anti-ARG2 antibody

Anti-Arg2 antibody

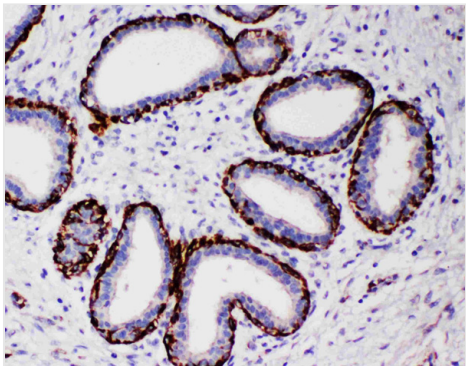
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA45393	Rabbit	Human, Mouse, Rat	Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

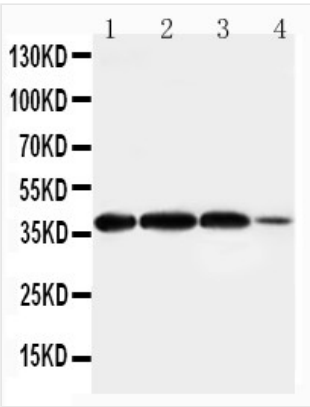
Arg2; Polyclonal Antibody; Anti-Arg2 antibody; Arginase-2; mitochondrial; arginase; type II; ARG2 antibody; ARG12_HUMAN antibody; Arginase II mitochondrial antibody; Arginase type II antibody; Arginase-2 antibody; arginase-2; mitochondrial antibody; Kidney arginase antibody; Kidney type arginase antibody; Kidney-type arginase antibody; L arginine amidinohydrolase antibody; L arginine ureahydrolase antibody; Non hepatic arginase antibody; Non-hepatic arginase antibody; Nonhepatic arginase antibody; Type II arginase antibody; anti-ARG2 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized
Sequence Length	354
Applicable Applications for anti-ARG2 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human Arg2 (67-85aa DFGDLSFTVPVKDDLNNL), different from the related mouse sequence by three amino acids and from the related rat sequence by two amino acids.
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Preparation and Storage	At -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.



IHC (Immunohistochemistry)
Anti-Arg2 antibody, AAA45393, IHC(P)IHC(P): Human Mammary Cancer Tissue



WB (Western Blot)
Anti-Arg2 antibody, AAA45393, Western blottingLane 1: Rat Lung Tissue LysateLane 2: Rat Testis Tissue LysateLane 3: A549 Cell LysateLane 4:293T Cell Lysate

ADDITIONAL INFORMATION

Related Product Information for anti-ARG2 antibody

Description: Rabbit IgG polyclonal antibody for Arginase-2, mitochondrial(ARG2) detection. Tested with WB, IHC-P in Human, Mouse, Rat.

Background: ARG2(arginase, type II) encodes a 355-amino acid polypeptide. Using Northern blotting and RT-PCR, Vockley et al.(1996) found that ARG2 is expressed as a 1.5-kb mRNA in a wide variety of tissues, with highest levels of expression in prostate, brain, and kidney. By PCR analysis of somatic cell hybrid panels, fluorescence in situ hybridization, and radiation hybrid analysis, the ARG2 gene is mapped to 14q24.1-q24.3. ARG2 may be inducible and may be essential in the regulation of nitric oxide synthesis by modulating local arginine concentrations. Gotoh et al.(1996) showed that ARG2 mRNA and nitric oxide synthase(NOS) mRNA were coinduced by lipopolysaccharide in a macrophage-like cell line. Arginase II has been implicated in the regulation of the arginine/ornithine concentrations in the cell. The mitochondrial location of ARG2 and its coinduction with ornithine aminotransferase and involvement with proline biosynthesis in lactating rat mammary gland had led to the inference that ARG2 is involved in biosynthetic functions, as opposed to the metabolic ones of the urea cycle.

NCBI AND UNIPROT INFORMATION

NCBI GI #	2492935
NCBI GeneID	384
UniProt Accession #	P78540; Q6FHY8; B2R690
Molecular Weight	38,578 Da
NCBI Official Full Name	Arginase-2, mitochondrial
NCBI Official Synonym Full Names	arginase 2
NCBI Official Symbol	ARG2
NCBI Protein Information	arginase-2, mitochondrial; kidney arginase; type II arginase; arginase, type II; nonhepatic arginase; kidney-type arginase; non-hepatic arginase; L-arginine ureahydrolase; L-arginine amidinohydrolase
UniProt Protein Name	Arginase-2, mitochondrial
UniProt Gene Name	ARG2
UniProt Entry Name	ARGI2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.