

Human Arginase II (Arg2) ELISA Kit | Arg2 elisa kit

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CATALOG #
AAA20555

REACTIVITY
Human

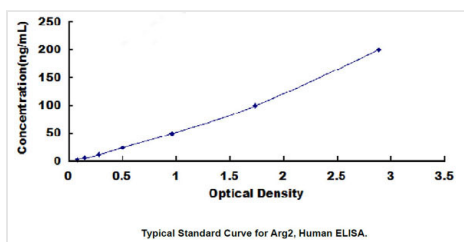
PRODUCT SYNONYMS

Arginase II (Arg2); Human Arginase II (Arg2) ELISA Kit; Kidney-type arginase; Non-hepatic arginase; Arg2 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of Arg2. No significant cross-reactivity or interference between Arg2 and analogues was observed.
Sequence Length	354
Assay Type	Quantitative Sandwich
Samples	Human serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids
Detection Range	3.12-200ng/mL
Sensitivity	< 1.33ng/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level Arg2 were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level Arg2 were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Preparation and Storage	The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for Arg2 elisa kit	Principle of the Assay: The microplate provided in this kit has been pre-coated with an antibody specific to Arg2. Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to Arg2. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain Arg2, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm ± 10nm. The concentration of Arg2 in the samples is then determined by comparing the O.D. of the samples to the standard curve. Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of Arg2 in human serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids.
Product Categories/Family for Arg2 elisa kit	Infection immunity
References	Different profiles of circulating arginase 2 in subtypes of preeclampsia pregnant women; Clin Biochem; 2021 Jun;92:25-33.; PMID: 33713637; Mariana Bertozzi-Matheus; Department of Biophysics and Pharmacology, Institute of Biosciences of Botucatu, Universidade Estadual Paulista, Distrito Rubiao Junior, Botucatu, São Paulo 18680-000, Brazil.

NCBI AND UNIPROT INFORMATION

NCBI GI #	1763758
NCBI GeneID	384
UniProt Accession #	P78540; Q6FHY8; B2R690
Molecular Weight	38,578 Da
NCBI Official Full Name	arginase II
NCBI Official Synonym Full Names	arginase 2
NCBI Official Symbol	ARG2
NCBI Protein Information	arginase-2, mitochondrial
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.

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Online datasheet: <https://stage.aaabiotech.com/human-elisa-kits/arginase-ii-arg2/20555>