

Human Arginase-1 ELISA Kit | ARG1 elisa kit

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CATALOG #
AAA17613

REACTIVITY
Human

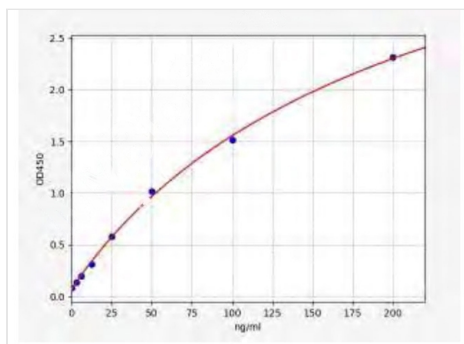
PRODUCT SYNONYMS

Arginase-1; Human Arginase-1 ELISA Kit; ARG1 (Arginase-1)/Liver Arginase/Liver-type arginase/Type I arginase; ARG1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Specifically recognize ARG1, no obvious cross reaction with other analogues
Sequence Length	323
Assay Type	Sandwich
Samples	Serum, plasma, cell culture supernatant and other biological samples
Detection Range	3.125-200ng/ml
Sensitivity	1.875ng/ml
Intra-assay Precision	Intra-assay Precision: samples with low, medium and high concentration are tested 20 times on same plate.
Inter-assay Precision	Inter-assay Precision: samples with low, medium and high concentration are tested 20 times on three different plates.
Preparation and Storage	Store entire kit at 2-8C for short-term. For longer-term, please store the microplate & standard at -20C, while the remaining reagents can be stored at 2-8C

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for ARG1 elisa kit	Background: Arginase 1 (ARG1) is a 35-40 kDa member of the arginase family of enzymes. It is expressed in multiple cell types, including erythrocytes, hepatocytes, neutrophils, smooth muscle and macrophages. ARG1 demonstrates two distinct functions: in the hepatocyte cytoplasm, it catalyzes the conversion of arginine to ornithine and urea, while in multiple cells, it degrades arginine, thus indirectly downregulating NO synthase (NOS) activity by depriving this enzyme of its substrate. Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti ARG1 antibody was precoated onto the 96-well plate. The biotin conjugated anti ARG1 antibody was used as the detection antibody. The standards and pilot samples were added to the wells subsequently. After incubation, unbound conjugates were removed by wash buffer. Then, biotinylated detection antibody was added to bind with ARG1 conjugated on coated antibody. After washing off unbound conjugates, HRP-Streptavidin was added. After a third washing, TMB substrates were added to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that turned yellow after adding a stop solution. Read the O.D. absorbance at 450nm in a microplate reader. The concentration of ARG1 in the sample was calculated by drawing a standard curve. The concentration of the target substance is proportional to the OD450 value.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	528078175
NCBI GeneID	101825450
NCBI Accession #	NP_001268574.1
NCBI GenBank Nucleotide #	NM_001281645.1
NCBI Official Full Name	arginase-1
NCBI Official Symbol	Arg1
NCBI Official Synonym Symbols	arginase-1
NCBI Protein Information	arginase-1

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/arg1-human-elisa-kits/arginase-1/17613>