

Mouse Arginase-1 ELISA Kit | Arg1 elisa kit

Mouse Arginase-1 ELISA Kit

CATALOG #
AAA98840

REACTIVITY
Mouse

PRODUCT SYNONYMS

Arginase-1; Mouse Arginase-1 ELISA Kit; Arg1/ (Arginase-1)/Liver Arginase/Liver-type arginase/Type I arginase; Arg1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	This assay has high sensitivity and excellent specificity for detection of Arg1. No significant cross-reactivity or interference between Arg1 and analogues was observed.
Sequence Length	323
Assay Type	Sandwich ELISA, Double Antibody
Samples	Serum, Plasma, Cell Culture Supernatant, cell or tissue lysate, Other liquid samples
Detection Range	1.563-100mIU/ml
Sensitivity	0.938mIU/ml
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level Arg1 were tested 20 times on one plate, respectively. Intra-Assay: CV<8%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level Arg1 were tested on 3 different plates, 8 replicates in each plate. CV (%) = SD/meanX100. Inter-Assay: CV<10%
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

Typical Data & Standard Curve

Results of a typical standard operation of a Arg1 ELISA Kit are listed below. This standard curve was generated at our lab for demonstration purpose only. Users shall obtain standard curve as per experiment by themselves. (N/A=not applicable)

X	mIU/ml	0	1.562	3.125	6.25	12.5	25	50	100
Y	OD450	0.105	0.331	0.407	0.594	0.940	1.485	2.100	2.639

Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for Arg1 elisa kit

Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti-Arg1 antibody was pre-coated onto 96-well plates. And the biotin conjugated anti- Arg1 antibody was used as detection antibodies. The standards, test samples and biotin conjugated detection antibody were added to the wells subsequently, and washed with wash buffer. HRP-Streptavidin was added and unbound conjugates were washed away with wash buffer. TMB substrates were used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the Arg1 amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration of Arg1 can be calculated.

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://www.aaabiotech.com/arg1-mouse-elisa-kits/arginase-1/98840>