

Mouse Toll-like receptor 4 ELISA Kit | TLR4 elisa kit

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CATALOG #
AAA17682

REACTIVITY
Mouse

PRODUCT SYNONYMS

Toll-like receptor 4; Mouse Toll-like receptor 4 ELISA Kit; TLR4/CD284/ARMD10/CD284 antigen/Lps/hTollhomolog of Drosophila toll/TOLL/toll-like receptor 4; TLR4 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	This assay has high sensitivity and excellent specificity for detection of TLR1. No significant cross-reactivity or interference between TLR1 and analogues was observed.
Sequence Length	839
Assay Type	Sandwich ELISA, Double Antibody
Samples	Serum, Plasma, Cell Culture Supernatant, cell or tissue lysate, Other liquid samples
Detection Range	0.313-20ng/ml
Sensitivity	0.188ng/ml
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level TLR1 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 TLR1 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 TLR4 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	ng/ml	0	0.312	0.625	1.25	2.5	5	10	20
Y	OD450	0.101	0.179	0.254	0.419	0.807	1.268	1.808	2.326

Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for TLR4 elisa kit

Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti-TLR1 antibody was pre-coated onto 96-well plates. And the biotin conjugated anti-TLR1 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 TLR1 amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration of TLR1 can be calculated.

NCBI AND UNIPROT INFORMATION

NCBI GI #	19924149
NCBI GeneID	7099
NCBI Accession #	NP_612564.1
NCBI GenBank Nucleotide #	NM_138554.4
Molecular Weight	73,301 Da
NCBI Official Full Name	toll-like receptor 4 isoform A
NCBI Official Synonym Full Names	toll like receptor 4
NCBI Official Symbol	TLR4
NCBI Official Synonym Symbols	TOLL; CD284; TLR-4; ARMD10
NCBI Protein Information	toll-like receptor 4
UniProt Protein Name	Toll-like receptor 4
UniProt Gene Name	TLR4
UniProt Entry Name	TLR4_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/tlr4-mouse-elisa-kits/toll-like-receptor-4/17682>