

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

Human Toll-like receptor 4 ELISA Kit

CATALOG #
AAA17687

REACTIVITY
Human

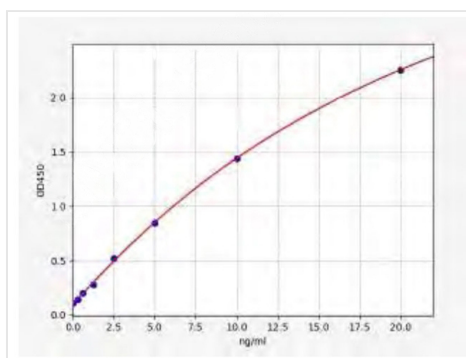
PRODUCT SYNONYMS

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

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Specifically recognize TLR4, no obvious cross reaction with other analogues
Sequence Length	839
Assay Type	Sandwich
Samples	Serum, plasma, cell culture supernatant and other biological samples
Detection Range	0.313-20ng/ml
Sensitivity	0.188ng/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 TLR4 elisa kit	Background: Toll-like receptor 4 (TLR4), a member of the Toll-like receptor (TLR) family, is involved in innate immunity and mediates inflammatory responses by recognizing lipopolysaccharide (LPS) or bacterial endotoxins. Hyperactivation of TLR4 triggers the production of various inflammatory factors, which are associated with the development of a variety of diseases, such as sepsis, endotoxemia, acute lung injury, rheumatoid arthritis, and cardiovascular diseases. Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti TLR4 antibody was precoated onto the 96-well plate. The biotin conjugated anti TLR4 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 TLR4 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 TLR4 in the sample was calculated by drawing a standard curve. The concentration of the target substance is proportional to the OD450 value.
--	--

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.