

ARG82084 Mouse TLR2 ELISA Kit

Package: 96 wells
Store at: 4°C

Component

Cat. No.	Component Name	Package	Temp
ARG82084-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG82084-002	Standard	2 X 10 ng/vial	4°C
ARG82084-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG82084-004	Antibody conjugate concentrate (100X)	1 vial (100 µl)	4°C
ARG82084-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG82084-006	HRP-Streptavidin concentrate (100X)	1 vial (100 µl)	4°C
ARG82084-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG82084-008	25X Wash buffer	20 ml	4°C
ARG82084-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG82084-010	STOP solution	10 ml (Ready to use)	4°C
ARG82084-011	Plate sealer	4 strips	Room temperature

Summary

Product Description	ARG82084 Mouse TLR2 ELISA Kit is an Enzyme Immunoassay kit for the quantification of Mouse TLR2 in serum, plasma (heparin, EDTA) and cell culture supernatants.
Tested Reactivity	Ms
Tested Application	ELISA
Specificity	There is no detectable cross-reactivity with other relevant proteins.
Target Name	TLR2
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	78 pg/ml
Sample Type	Serum, plasma (heparin, EDTA) and cell culture supernatants.
Standard Range	156 - 10000 pg/ml
Sample Volume	100 µl

Precision	Intra-Assay CV: 5.3%; Inter-Assay CV: 7.0%
Alternate Names	CD antigen CD282; TIL4; CD282; Toll/interleukin-1 receptor-like protein 4; Toll-like receptor 2

Application Instructions

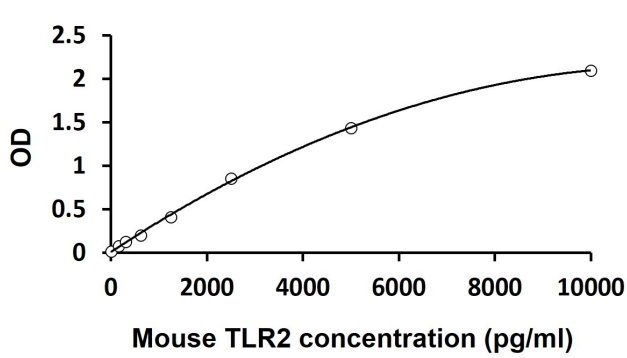
Assay Time	~ 5 hours
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Properties

Form	96 well
Storage instruction	Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	TLR2
Gene Full Name	toll-like receptor 2
Background	The protein encoded by this gene is a member of the Toll-like receptor (TLR) family which plays a fundamental role in pathogen recognition and activation of innate immunity. TLRs are highly conserved from Drosophila to humans and share structural and functional similarities. They recognize pathogen-associated molecular patterns (PAMPs) that are expressed on infectious agents, and mediate the production of cytokines necessary for the development of effective immunity. The various TLRs exhibit different patterns of expression. This gene is expressed most abundantly in peripheral blood leukocytes, and mediates host response to Gram-positive bacteria and yeast via stimulation of NF-kappaB. [provided by RefSeq, Jul 2008]
Function	Cooperates with LY96 to mediate the innate immune response to bacterial lipoproteins and other microbial cell wall components. Cooperates with TLR1 or TLR6 to mediate the innate immune response to bacterial lipoproteins or lipopeptides. Acts via MYD88 and TRAF6, leading to NF-kappa-B activation, cytokine secretion and the inflammatory response. May also promote apoptosis in response to lipoproteins. Recognizes mycoplasmal macrophage-activating lipopeptide-2kD (MALP-2), soluble tuberculosis factor (STF), phenol-soluble modulin (PSM) and B.burgdorferi outer surface protein A lipoprotein (OspA-L) cooperatively with TLR6. [UniProt]
Highlight	Related products: TLR2 antibodies ; TLR2 ELISA Kits ; New ELISA data calculation tool: Simplify the ELISA analysis by GainData
PTM	Glycosylation of Asn-442 is critical for secretion of the N-terminal ectodomain of TLR2. [UniProt]
Cellular Localization	Membrane; Single-pass type I membrane protein. Cytoplasmic vesicle, phagosome membrane; Single-pass type I membrane protein. Membrane raft. Note=Does not reside in lipid rafts before stimulation but accumulates increasingly in the raft upon the presence of the microbial ligand. In response to diacylated lipoproteins, TLR2:TLR6 heterodimers are recruited in lipid rafts, this recruitment determines the intracellular targeting to the Golgi apparatus. [UniProt]



ARG82084 Mouse TLR2 ELISA Kit standard curve image

ARG82084 Mouse TLR2 ELISA Kit results of a typical standard run with optical density reading at 450 nm.