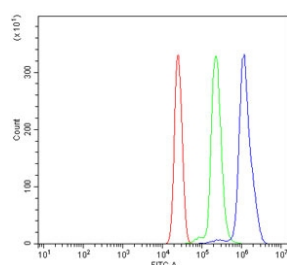


Toll-like receptor 4 Antibody / TLR4 (RQ7208)

Catalog No.	Formulation	Size
RQ7208	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	O00206
Applications	Western Blot : 0.5-1ug/ml Flow Cytometry : 1-3ug/million cells Direct ELISA : 0.1-0.5ug/ml
Limitations	This Toll-like receptor 4 antibody is available for research use only.



Flow cytometry testing of human U937 cells with Toll-like receptor 4 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue=Toll-like receptor 4 antibody.



Western blot testing of human HCCT cell lysate with Toll-like receptor 4 antibody. Predicted molecular weight ~96 kDa.

Description

TLR4, the human homolog of *Drosophila* Toll, is a type I transmembrane protein with an extracellular domain consisting of a leucine-rich repeat region and an intracellular domain homologous to that of human interleukin-1 receptor. The TLR4 gene is mapped to chromosome 9q32-q33 by fluorescence in situ hybridization. It detects lipopolysaccharide from Gram-negative bacteria and is thus important in the activation of the innate immune system. 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.

Application Notes

Optimal dilution of the Toll-like receptor 4 antibody should be determined by the researcher.

Immunogen

Recombinant human protein (amino acids Q39-Q616) was used as the immunogen for the Toll-like receptor 4 antibody.

Storage

After reconstitution, the Toll-like receptor 4 antibody can be stored for up to one month at 4°C. For long-term, aliquot and store at -20°C. Avoid repeated freezing and thawing.