

TLR4 / CD284, Human Recombinant

06/19

CATALOG NO:	P1417-50 50 µg
ALTERNATE NAMES:	ARMD10, CD284, TLR-4, TLR4, TOLL
MOL. WT.	70.5 kDa (C terminal 6x His tag)
SOURCE:	Insect Cells (sf9)
PURITY:	>95% SDS-PAGE.
FORM:	Liquid
FORMULATION:	In 20 mM Tris, 500 mM NaCl, pH 7.4 and 10% glycerol
SPECIFIC ACTIVITY:	Measured by its binding ability in a functional ELISA. The concentration of human recombinant MD2 that produces 50% optimal binding response with immobilized human recombinant TLR4 at 2 µg/mL (100 µL/well) is approximately 0.5 µg/mL.
STORAGE CONDITIONS:	Store at -20°C. For long term storage aliquot and store at -80°C. Avoid repeated freezing and thawing cycles. -20°C
DESCRIPTION:	TLR4 is a member of 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 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. TLR4 receptor has been implicated in signal transduction events induced by lipopolysaccharide (LPS) found in most gram-negative bacteria. Mutations in this gene have been associated with differences in LPS responsiveness. Multiple transcript variants encoding different isoforms have been found for this gene.
AMINO ACID SEQUENCE:	aa 24-631

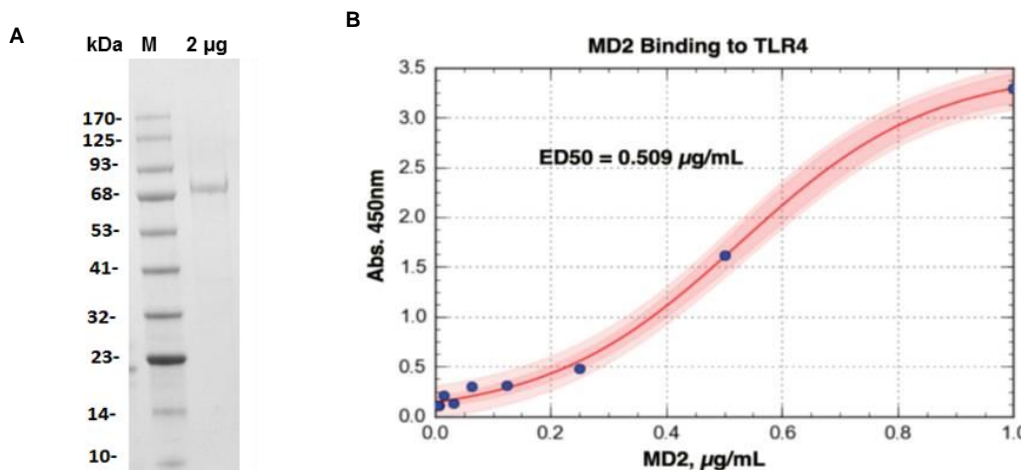


Fig. A. SDS-PAGE (4-20%) of TLR4 Human Recombinant: 2 µg of TLR4 is loaded under reducing conditions and stained with Coomassie Blue. Lane M: Molecular weight marker

Fig. B. The concentration of rhMD2 that produces 50% optimal binding response with immobilized Recombinant Human TLR4 at 2 µg/mL (100 µL/well), is found to be approximately 0.5 µg/mL.

RELATED PRODUCTS:

- TLR4 Antibody (3251)
- TLR4 Blocking Peptide (3253BP)
- TLR4 Antibody (3253)

FOR RESEARCH USE ONLY! Not to be used on humans.