Datasheet for ABIN7321092

TLR2 Protein (His tag)

1 Image

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Overview

Quantity:	100 µg
Target:	TLR2
Origin:	Rat
Source:	Baculovirus infected Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TLR2 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Rat TLR2/CD282 Protein (His Tag)
Sequence:	Met1-Gln587
Characteristics:	A DNA sequence encoding the mature form of rat TLR2 (Q6YGU2) (Met1-Gln587) was expressed,with a polyhistide tag at the C-terminus.
Purity:	> 90 % as determined by SDS-PAGE
Endotoxin Level:	< 1.0 EU per µg of the protein as determined by the LAL method

Target Details

Target:	TLR2
Alternative Name:	TLR2/CD282 (TLR2 Products)
Background:	Background: TLR2, also known as CD282, is a member of the Toll-like receptor (TLR) family. TLRs are highly conserved from Drosophila to humans and share structural and functional similarities. They play a fundamental role in pathogen recognition and activation of innate

Target Details

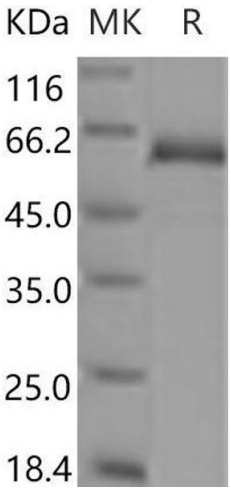
	immunity. They recognize pathogen-associated molecular patterns (PAMPs) that are expressed on infectious agents, and mediate the production of cytokines necessary for the development of effective immunity. The various TLRs exhibit different patterns of expression. TLR2 contains 14 LRR (leucine-rich) repeats and 1 TIR domain. TLR2 gene is expressed most abundantly in peripheral blood leukocytes, and mediates host response to Gram-positive bacteria and yeast via stimulation of NF-kappaB. CD282 cooperates with LY96 to mediate the innate immune response to bacterial lipoproteins and other microbial cell wall components. It also cooperates with TLR1 to mediate the innate immune response to bacterial lipoproteins or lipopeptides. CD282 acts via MYD88 and TRAF6, leading to NF-kappa-B activation, cytokine secretion and the inflammatory response. It may also promote apoptosis in response to lipoproteins. Synonym: TLR2
Molecular Weight:	67.5 kDa
UniProt:	Q6YGU2
Pathways:	TLR Signaling, Activation of Innate immune Response, Cellular Response to Molecule of Bacterial Origin, Positive Regulation of Immune Effector Process, Production of Molecular Mediator of Immune Response, Toll-Like Receptors Cascades

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from sterile 20 mM Tris, 500 mM NaCl, pH 7.4, 10 % glycerol
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.



Western Blotting

Image 1.