



TLR4 blocking peptide (CDBP6295)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description

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 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 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. [provided by RefSeq, Jan 2012]

Conjugate	Unconjugated
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Applications	Used as a blocking peptide in immunoblotting applications.
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Format	Liquid
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Concentration	200 µg/mL
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Size	0.05 mg
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Preservative	None
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Storage	-20°C
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GENE INFORMATION

Gene Name	TLR4 toll-like receptor 4 [Homo sapiens (human)]
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Official Symbol	TLR4
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Synonyms	TLR4; toll-like receptor 4; TOLL; CD284; TLR-4; ARMD10; hToll; homolog of Drosophila toll
Entrez Gene ID	7099
mRNA Refseq	NM_003266
Protein Refseq	NP_003257
UniProt ID	O00206
Pathway	Activated TLR4 signalling; Activation of IRF3/IRF7 mediated by TBK1/IKK epsilon; Amoebiasis; Chagas disease (American trypanosomiasis); Corticotropin-releasing hormone; HIF-1 signaling pathway; Hepatitis B; IKK complex recruitment mediated by RIP1
Function	lipopolysaccharide binding; lipopolysaccharide binding; lipopolysaccharide receptor activity; protein binding; receptor activity; transmembrane signaling receptor activity