



TLR3 peptide (DAG-P1242)

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 (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 receptor is most abundantly expressed in placenta and pancreas, and is restricted to the dendritic subpopulation of the leukocytes. It recognizes dsRNA associated with viral infection, and induces the activation of NF-kappaB and the production of type I interferons. It may thus play a role in host defense against viruses. Use of alternative polyadenylation sites to generate different length transcripts has been noted for this gene. [provided by RefSeq, Jul 2008]
Specificity	Expressed at high level in placenta and pancreas. Also detected in CD11c+ immature dendritic cells. Only expressed in dendritic cells and not in other leukocytes, including monocyte precursors. TLR3 is the TLR that is expressed most strongly in the brain,
Purity	70 - 90% by HPLC.
Conjugate	Unconjugated
Sequence Similarities	Belongs to the Toll-like receptor family.Contains 22 LRR (leucine-rich) repeats.Contains 1 LRRCT domain.Contains 1 LRRNT domain.Contains 1 TIR domain.
Format	Liquid
Preservative	None
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Information available upon request.

GENE INFORMATION

Gene Name	TLR3 toll-like receptor 3 [Homo sapiens (human)]
Official Symbol	TLR3
Synonyms	TLR3; toll-like receptor 3; CD283; IIAE2;
Entrez Gene ID	7098
mRNA Refseq	NM_003265.2
Protein Refseq	NP_003256.1
UniProt ID	O15455
Chromosome Location	4q35
Pathway	Activated TLR4 signalling, organism-specific biosystem; Activation of IRF3/IRF7 mediated by TBK1/IKK epsilon, organism-specific biosystem; Cytosolic sensors of pathogen-associated DNA, organism-specific biosystem; Hepatitis B, organism-specific biosystem; Hepatitis C, organism-specific biosystem; Hepatitis C, conserved biosystem; Herpes simplex infection, organism-specific biosystem; Herpes simplex infection, conserved biosystem; IKK complex recruitment mediated by RIP1, organism-specific biosys
Function	double-stranded RNA binding; double-stranded RNA binding; protein binding; receptor activity; transmembrane signaling receptor activity;