



Anti-TLR3 (aa 601-700) polyclonal antibody (DPAB-DC3073)

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- κ B 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.

Immunogen

TLR3 (NP_003256, 601 a.a. ~ 700 a.a) partial recombinant protein with GST tag. The sequence is
 LPASVFNNQVSLKSLNLQKNLITSVEKKVFGPAFRNLTELDMRFNPFDCTCESIAWFVNW
 INETHTNIPELSSHYLCNTPPHYHGFPVRLFDTSSCKDSA

Source/Host

Mouse

Species Reactivity

Human

Conjugate

Unconjugated

Applications

WB (Recombinant protein), ELISA,

Size

50 μ l

Buffer

50 % glycerol

Preservative

None

Storage

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name	TLR3 toll-like receptor 3 [Homo sapiens (human)]
Official Symbol	TLR3
Synonyms	TLR3; toll-like receptor 3; CD283; II AE2;
Entrez Gene ID	7098
Protein Refseq	NP_003256
UniProt ID	O15455
Chromosome Location	4q35
Pathway	Activated TLR4 signalling; Cytosolic sensors of pathogen-associated DNA; Hepatitis C; Herpes simplex infection
Function	double-stranded RNA binding; protein binding; receptor activity; transmembrane signaling receptor activity
