

Human CellExp TLR-3, Human recombinant protein
Toll-like receptor 3; CD283 antigen
Catalog # PBV10850r**Specification****Human CellExp TLR-3, Human recombinant protein - Product info**

Primary Accession [O15455](#)
Calculated MW **77.4 kDa** KDa

Human CellExp TLR-3, Human recombinant protein - Additional Info

Gene ID **7098**
Gene Symbol **TLR3**

Other Names

Toll-like receptor 3; CD283 antigen

Gene Source **Human**
Source **HEK 293 cells**
Assay&Purity **SDS-PAGE; ≥95%**
Assay2&Purity2 **HPLC;**
Recombinant **Yes**
Sequence

STTKCTVSHE VADCSHLKLT QVPDDLPTNI
TVLNLTHNQL RRLPAANFTR YSQLTSLDVG
FNTISKLEPE LCQKLPMLKV LNLQHNELSQ
LSDKTFAFCT NLTELHLMSN SIQIKNNPF
VKQKNLITLD LSHNGLSSTK LGTQVQLENL
QELLSNNKI QALKSEELDI FANSSLKKLE
LSSNQIKEFS PGCFAIGRL FGLFLNNVQL
GPSLTEKLCL ELANTSIRNL SLSNSQLSTT
SNTTFLGLKW TNLTMLDLSY NNLNVVGND
FAWLPQLEYF FLEYNNIQHL FSHSLHGLFN
VRYLNLKRSF TKQISLASL PKIDDFSQW
LKCLEHLNME DNDIPGIKSN MFTGLINLKY
LLSNSFTSL RTLTNETFVS LAHSPLHILN
LTKNKISKIE SDAFSWLGH L EVLDLGLNEI
GQELTGQEW R GLENIFEIYL SYNKYQLTR
NSFALVPSLQ RLMLRRVALK NVDSSPSPFQ
PLRNLTILD L SNNNIANIND DMLEGLEKLE
ILD LQHNNLA RLWKHANPGG PIYFLKGLSH
LHILNLESNG FDEIPVEVFK DLFELKIIDL
GLNNLNTLPA SVFNNQVSLK SLNLQKNLIT
SVEKKVFGPA FRNLTELD MR FNPFDCTCES
IAWFVNWINE THTNIPELSS HYLCNTPPHY
HGFPVRLFDT SSCKDSAPFE L

Target/Specificity
TLR3

Application Notes

Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. Do not vortex. This solution can be stored at 2-8°C for up to 1 week. For extended storage, it is

recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.

Format

Lyophilized powder

Storage

-20°C; Sterile filtered through a 0.2 micron filter. Lyophilized from 20 mM Sodium Phosphate, pH 7.5.

Human CellExp TLR-3, Human recombinant protein - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Human CellExp TLR-3, Human recombinant protein - Images**Human CellExp TLR-3, Human recombinant protein - Background**

TLR-3 is a single-pass type I receptor that binds to and signals the presence of microbial pathogens and double stranded RNA (dsRNA) viruses. Signaling through TLR-3 can promote the NF- κ B pathway to initiate innate and adaptive immune responses to bacterial and viral infections, as well as the p53 pathway to trigger apoptosis in cells infected with dsRNA viruses. TLR-3 belongs to a family of structurally-related toll-like receptors (TLRs) containing an N-terminal domain rich in leucine repeats and a C-terminal intracellular Toll/interleukin (IL)-1 (TIL) domain. TLR-3 is expressed primarily in dendritic cells of the placenta and pancreas where it can reside on both sides of the plasma membrane and in the endosomal compartment of the cells. Recombinant human TLR-3 is 77.4 kDa glycoprotein containing 681 residues which comprise the TLR-3 extracellular domain.

Human CellExp TLR-3, Human recombinant protein - References

Rock F.L.,et al.Proc. Natl. Acad. Sci. U.S.A. 95:588-593(1998).
Lafon M.,et al.J. Mol. Neurosci. 29:185-194(2006).
Nakajima T.,et al.Immunogenetics 60:727-735(2008).
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Ota T.,et al.Nat. Genet. 36:40-45(2004).