

**Recombinant Human TLR-3**  
**Catalog # PBG10451****Specification**

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**Recombinant Human TLR-3 - Product Information****Recombinant Human TLR-3 - Additional Information****Description**

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- $\kappa$ 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.

**Biological Activity**

Determined by its ability to inhibit IL-8 secretion induced by Poly I:C in the TLR3 receptor-expressing HEK293 cells (HEK293 TLR3r). The  $\text{ED}_{50}$  for this effect is  $\leq 30 \mu\text{g/ml}$  in the presence of  $100 \mu\text{g/ml}$  of Poly I:C.

**Authenticity**

Verified by N-terminal and Mass Spectrometry analyses (when applicable).

**Endotoxin**

Endotoxin level is  $<0.1 \text{ ng/} \mu\text{g}$  of protein ( $<1\text{EU/} \mu\text{g}$ ).

**Protein Content**

Verified by UV Spectroscopy and/or SDS-PAGE gel.

**Storage**

$-20^{\circ}\text{C}$

**Precautions**

Recombinant Human TLR-3 is for research use only and not for use in diagnostic or therapeutic procedures.

**Recombinant Human TLR-3 - 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](#)

## **Recombinant Human TLR-3 - Images**