

## Product Information

### **MemDX™ Membrane Protein Human TLR3 (Toll like receptor 3) Expressed in NS0 for Antibody Discovery, Partial (27-711aa)**

Cat. No.: **MPX0169K**

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

This product is a 79.2 kDa Human TLR3 membrane protein expressed in NS0. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

#### Product Specifications

##### Host Species

Human

##### Target Protein

TLR3

##### Protein Length

Partial (27-711aa)

##### Protein Class

Receptor; Immunity

##### Molecular Weight

79.2 kDa

##### TMD

1

##### Sequence

KCTVSHEVADCSHLKLTQVPDDL  
TNITVLNLTHNQLRRLPAANFTRYSQLTSLDVGFNTISKLEPELCQKLPM  
LKVLNLQHNELSQLSDKTFACFCTNLTELHLSNSIQKIKNNPFVKQKNLI  
TLDLSHNGLSSTKLGTQVQLENLQELLSNNKIQALKSEELDIFANSSLK  
KLELSSNQIKEFSPGCFHAIGRLFGLFLNNVQLGPSLTEKLCLELANTSI  
RNLSLSNSQLSTTSNTTFLGLKWTNLTMLDLSYNNLNVDGNSFAWLPQL  
EYFFLEYNNIQHLFSLSLHGLFNVRYNLKRSTFKQSISLASLPKIDDFS  
FQWLKCLEHLNMEDNDIPGIKSNMFTGLINLKYLSLSNSFTSLRTLNET  
FVSLAHSPLHILNLTKNKISKIESDAFSWLGHLEVLDLGLNEIGQELTGQ  
EWRGLENIFEIYLSYNKYQLTRNSFALVPSLQRLMLRRVALKNVDSSPS  
PFQPLRNLTILDLSNNNIANINDDMLEGLEKLEILDQHNNLARLWKHAN  
PGGPYFLKGLSHLHILNLESNGFDEIPVEVFKDLFELKIIDLGLNNLNT  
LPASVFNNQVSLKSLNLQKNLITSVEKKVFGPAFRNLTELDMRFPDFDCT  
CESIAWVFNWINETHNIPELSSHYLCNTPPHYHGFVRLFDTSCKDSA  
PFELFFMINTS

## Product Description

### Expression Systems

NS0

### Tag

10xHis tag at the C-terminus

### Protein Format

Soluble

### Form

LYOPH

### Reconstitution

Reconstitute at 400 µg/mL in sterile PBS.

### Endotoxin

<0.10 EU per 1 µg of the protein by the LAL method.

### Purity

>95%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie® Blue Staining.

### Buffer

Lyophilized from a 0.2 µm filtered solution in PBS.

### Storage

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -70°C or lower. Avoid freeze/thaw cycles.

## Target

### Target Protein

TLR3

### Full Name

Toll like receptor 3

### Introduction

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.

### Alternative Names

TLR3; CD283; IIAE2; Toll like receptor 3

### Gene ID

[7098](#)

**UniProt ID**

[O15455](#)