

## **PRODUCT INFORMATION**

**Tag** C-Flag Tag

Target TLR2

Synonyms CD282; TIL4

**Description**Human TLR2 full length protein-synthetic

Delivery In Stock
Uniprot ID 060603
Expression Host HEK293

Protein Families Druggable Genome, Transmembrane
Protein Pathways Toll-like receptor signaling pathway

Molecular Weight

The human full length TLR2 protein has a MW of

89.8 kDa

Formulation & Reconstitution Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% - 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis

for specific instructions of reconstitution.

Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquet and store

Storage & Shipping intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing).

Lyophilized proteins are shipped at ambient

temperature.

The protein 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. This protein is a cell-surface protein that can form heterodimers with

other TLR family members to recognize conserved molecules derived from

**Background** microorganisms known as pathogen-associated molecular patterns (PAMPs). Activation of TLRs by

PAMPs leads to an up-regulation of signaling pathways to modulate the host's inflammatory response. This gene is also thought to promote apoptosis in response to bacterial lipoproteins.

This gene has been implicated in the

pathogenesis of several autoimmune diseases. Alternative splicing results in multiple transcript

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variants.

**Usage** Research use only

Conjugate Unconjugated





## ELISA assay to evaluate TLR2-Nanodisc 0.2µg Human TLR2-Nanodisc per well

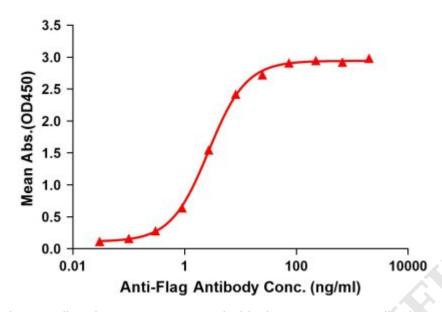


Figure 1. Elisa plates were pre-coated with Flag Tag TLR2-Nanodisc (0.2µg/per well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding with TLR2-Nanodisc is 2.685ng/ml.

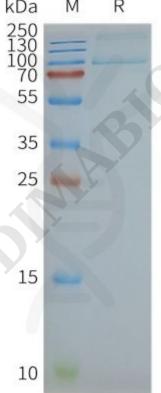


Figure 2. Human TLR2-Nanodisc, Flag Tag on SDS-PAGE



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