

## **PRODUCT INFORMATION**

\$hasAttributeValueDescription in C:\wwwroot\mirror.dimabio.com\wp-content\plugins\woocommerce-printcommerce-print-products-public.php on line 2806 Tag

Human TLR9 full length protein-synthetic nanodisc

Delivery In Stock Uniprot ID O9NR96 HEK293 **Expression Host** 

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

Molecular Weigh The human full length TLR9 protein has a MW of 115.9 kDa

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. Formulation & Reconstitution

Storage & Shipping

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, 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 (TIL9) 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 nearly for the development of effective immunity. Studies in mice and human indicate that this receptor mediates cellular response to unmethylated CpG dinucleotides in bacterial DNA to mount an innate immune response.

Usage Research use only Unconjugated

Background

## ELISA assay to evaluate TLR9-Nanodisc 0.2µg Human TLR9-Nanodisc per well

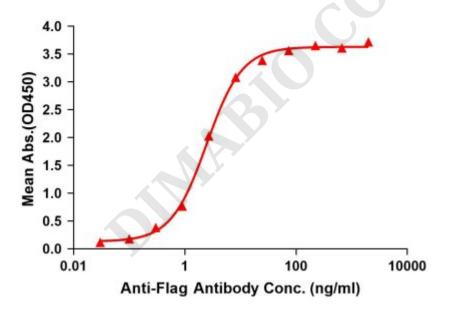


Figure 1. Elisa plates were pre-coated with Flag Tag TLR9-Nanodisc (0.2µg/per well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding with TLR9-Nanodisc is 2.467ng/ml.

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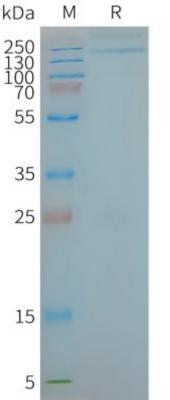


Figure 2. Human TLR9-Nanodisc, Flag Tag on SDS-PAGE



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