

**PRODUCT INFORMATION**

<b>Tag</b>	C-Flag Tag
<b>Expression Host</b>	HEK293
<b>Target</b>	TREM2
<b>Synonyms</b>	PLOSL2; TREM-2; Trem2a; Trem2b; Trem2c
<b>Description</b>	Human TREM2 full length protein-synthetic nanodisc
<b>Uniprot ID</b>	Q9NZC2
<b>Protein Families</b>	Druggable Genome, Secreted Protein, Transmembrane
<b>Protein Pathways</b>	N/A
<b>Molecular Weight</b>	The human full length TREM2 protein has a MW of 25.4 kDa
<b>Delivery</b>	In Stock
<b>Formulation &amp; Reconstitution</b>	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. Do not use solvents with a pH below 6.5 or those containing high concentrations of divalent metal ions (greater than 5 mM) in subsequent experiments.
<b>Sterility</b>	Products are supplied non-sterile. For cell culture applications, dilute in appropriate medium and sterile-filter (0.22 µm) prior to use.
<b>Storage&amp;Shipping</b>	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.
<b>Background</b>	A membrane protein that forms a receptor signaling complex with the TYRO protein tyrosine kinase binding protein. The encoded protein functions in immune response and may be involved in chronic inflammation by triggering the production of constitutive inflammatory cytokines. Defects in this gene are a cause of polycystic lipomembranous osteodysplasia with sclerosing leukoencephalopathy (PLOSL).
<b>Usage</b>	Research use only
<b>Conjugate</b>	Unconjugated



### ELISA assay to evaluate TREM2-Nanodisc 0.2 $\mu$ g Human TREM2-Nanodisc per well

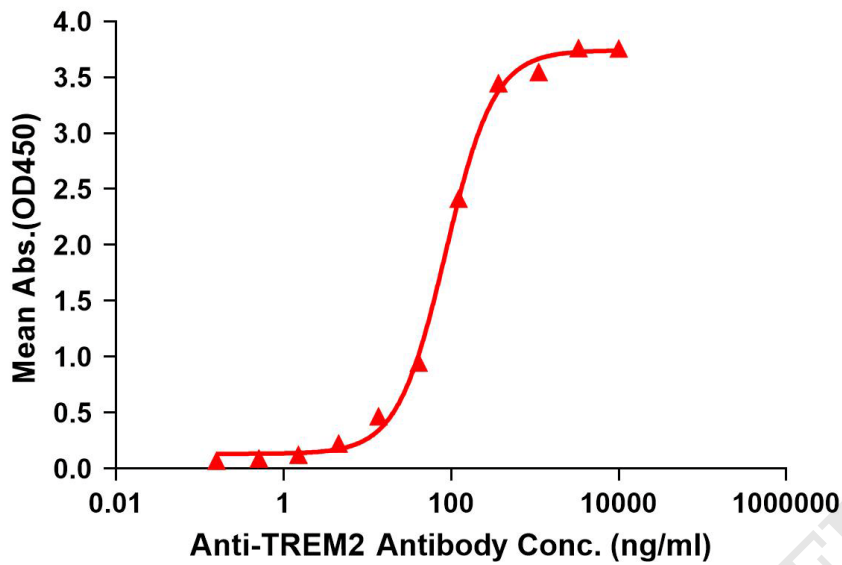


Figure 1. Elisa plates were pre-coated with C-Flag Tag TREM2-Nanodisc (0.2 $\mu$ g/per well). Serial diluted anti-TREM2 monoclonal antibody (BME100294) solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-TREM2 monoclonal antibody binding with TREM2-Nanodisc is 86.58ng/ml.

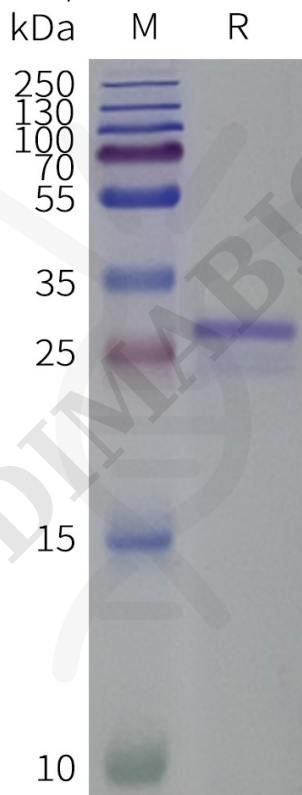


Figure 2. Human TREM2-Nanodisc, Flag Tag on SDS-PAGE

