

## PRODUCT INFORMATION

<b>Tag</b>	C-Flag&Avi Tag
<b>Expression Host</b>	HEK293
<b>Target</b>	NK2R
<b>Synonyms</b>	TACR2, NKNAR, SKR, TAC2R
<b>Description</b>	Biotinylated Human NK2R full length protein-synthetic nanodisc
<b>Uniprot ID</b>	P21452
<b>Protein Families</b>	Transmembrane
<b>Protein Pathways</b>	Peptide GPCRs,
<b>Molecular Weight</b>	The human full length NK2R protein has a MW of 49.2kDa
<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>	This gene belongs to a family of genes that function as receptors for tachykinins. Receptor affinities are specified by variations in the 5'-end of the sequence. The receptors belonging to this family are characterized by interactions with G proteins and 7 hydrophobic transmembrane regions. This gene encodes the receptor for the tachykinin neuropeptide substance K, also referred to as neurokinin A. [provided by RefSeq, Jul 2008]
<b>Usage</b>	Research use only
<b>Conjugate</b>	Biotinylated



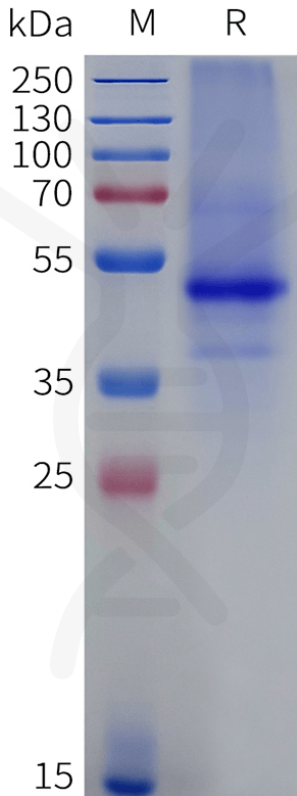
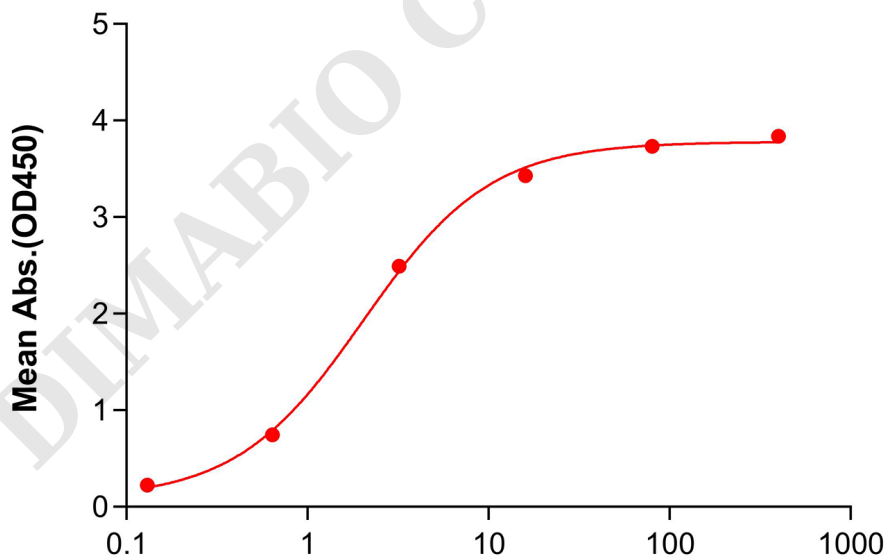


Figure 1. Biotinylated Human NK2R-Nanodisc, Flag Tag on SDS-PAGE

## Biotinylated Human NK2R full length protein-synthetic nanodisc ELISA

0.1  $\mu$ g of Streptavidin protein per well



### Biotinylated Human NK2R full length protein-synthetic nanodisc (ng/mL)

Figure 2. On a streptavidin-coated plate (0.1  $\mu$ g/well) immobilized with biotinylated Human NK2R full-length protein-synthetic nanodisc (FLP100360B, 1  $\mu$ g/mL, 100  $\mu$ L/well), the Anti-Flag Rabbit mAb showed linear binding in the range of 0.64-16 ng/mL. In order to specifically detect FLP100360B, HRP Conjugated Goat anti Rabbit was used as detection antibody.



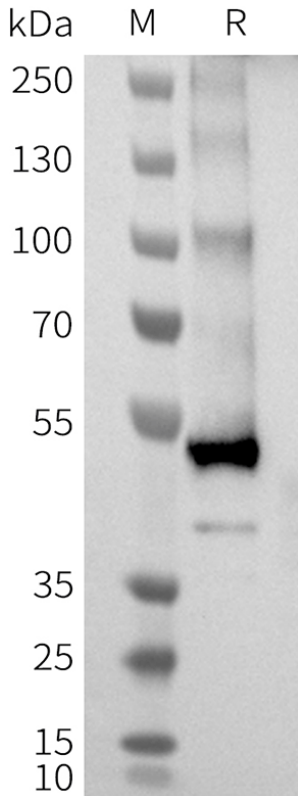


Figure 3. WB analysis of Human NK2R-Nanodisc with Streptavidin HRP at 1/4000 dilution

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