

Product datasheet for **TP723984**

NKG2D Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Human NKG2D Protein, mFc Tag
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	mFc-Pro99-Lys330+NKG2D-Ile73-Val216
Tag:	N-Mouse Fc
Predicted MW:	42.8 kDa
Purity:	> 95%
Buffer:	Lyophilized from sterile PBS, pH 7.4. Normally 5% - 8% trehalose is added as protectants before lyophilization
Reconstitution Method:	Reconstitute with deionized water
Preparation:	Affinity purification
Storage:	Store the lyophilized protein at -20°C. After reconstitution, store the protein at -80°C for 12 months. Avoid repeated freezing and thawing.
Stability:	12 months from date of despatch
Locus ID:	574240
UniProt ID:	P26718



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Summary:

Natural killer (NK) cells are lymphocytes that can mediate lysis of certain tumor cells and virus-infected cells without previous activation. They can also regulate specific humoral and cell-mediated immunity. NK cells preferentially express several calcium-dependent (C-type) lectins, which have been implicated in the regulation of NK cell function. The NKG2 gene family is located within the NK complex, a region that contains several C-type lectin genes preferentially expressed in NK cells. This gene encodes a member of the NKG2 family. The encoded transmembrane protein is characterized by a type II membrane orientation (has an extracellular C terminus) and the presence of a C-type lectin domain. It binds to a diverse family of ligands that include MHC class I chain-related A and B proteins and UL-16 binding proteins, where ligand-receptor interactions can result in the activation of NK and T cells. The surface expression of these ligands is important for the recognition of stressed cells by the immune system, and thus this protein and its ligands are therapeutic targets for the treatment of immune diseases and cancers. Read-through transcription exists between this gene and the upstream KLRC4 (killer cell lectin-like receptor subfamily C, member 4) family member in the same cluster.

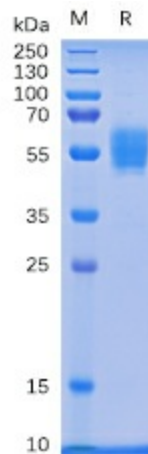
Product images:


Figure 1. Human NKG2D Protein, mFc Tag on SDS-PAGE under reducing condition.

Human NKG2D, mFc Tagged protein ELISA

0.2 µg of MICA, His Tagged protein per well

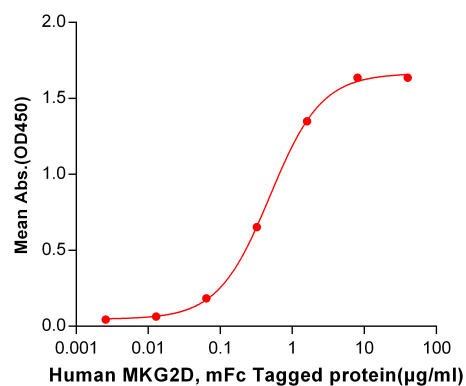


Figure 2. ELISA plate pre-coated by 2 µg/ml (100 µl/well) Human BCMA, His tagged protein (PME100349) can bind Human NKG2D, mFc tagged protein (TP723984) in a linear range of 0.064-1.6 µg/ml.