

Datasheet for ABIN6961134  
**KLRK1 Protein (mFc Tag)**

## 3 Images

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## Overview

Quantity:	100 µg
Target:	KLRK1
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This KLRK1 protein is labelled with mFc Tag.
Application:	ELISA

## Product Details

Purpose:	Recombinant human NKG2D protein with N-terminal mouse Fc
Specificity:	MFc (Pro99-Lys330) NKG2D (Ile73-Val216)
Characteristics:	Extracellular Domain Protein
Purification:	affinity purification
Purity:	The purity of the protein is greater than 95 % as determined by SDS-PAGE and Coomassie blue staining.

## Target Details

Target:	KLRK1
Alternative Name:	NKG2D ( <a href="#">KLRK1 Products</a> )
Background:	Synonymes: NKG2D,CD314,KLRK1,NK cell receptor D

## Target Details

Description: 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.

Molecular Weight:	predicted molecular mass of 42.8 kDa after removal of the signal peptide. The apparent molecular mass of NKG2D-mFc is 50-65 kDa due to glycosylation.
Gene ID:	574240
UniProt:	<a href="#">P26718</a>
Pathways:	<a href="#">Activation of Innate immune Response</a> , <a href="#">Cellular Response to Molecule of Bacterial Origin</a> , <a href="#">Regulation of Leukocyte Mediated Immunity</a> , <a href="#">Positive Regulation of Immune Effector Process</a>

## Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

## Handling

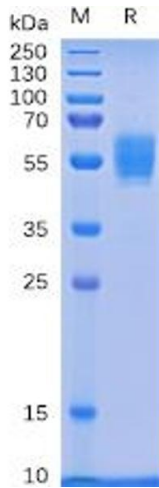
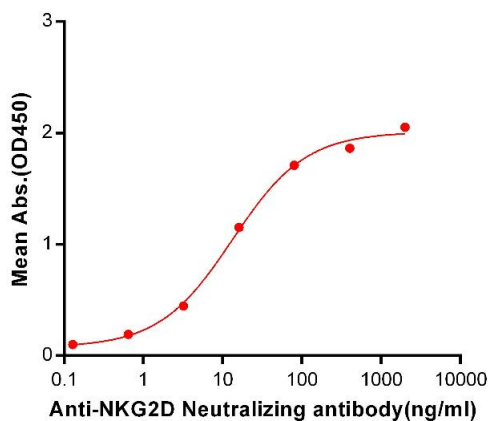
Format:	Lyophilized
Reconstitution:	Reconstitute with deionized water
Buffer:	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose is added as protectants before lyophilization.
Preservative:	Without preservative

Handling

Storage:	-20 °C,-80 °C
Storage Comment:	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.
Expiry Date:	12 months

Images

**Human NKG2D, mFc Tagged protein ELISA**  
0.2 µg of Human NKG2D, mFc Tagged protein per well



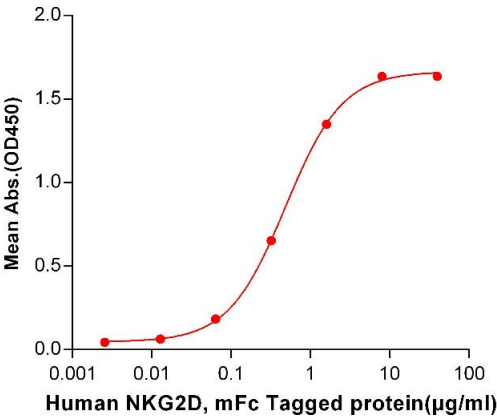
ELISA

**Image 1.** ELISA plate pre-coated by 2 µg/mL (100 µL/well) Human NKG2D, mFc tagged protein (ABIN6961134) can bind Anti-NKG2D Neutralizing antibody in a linear range of 0.64-400 ng/mL.

SDS-PAGE

**Image 2.** 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



**ELISA**

**Image 3.** ELISA plate pre-coated by 2 µg/mL (100 µL/well) Human MICA, His tagged protein (ABIN6964102) can bind Human NKG2D, mFc tagged protein (ABIN6961134) in a linear range of 0.064-1.6 µg/mL.