

NKG2D recombinant protein

Recombinant Mouse NKG2D Protein (ECD, His Tag)

CATALOG # AAA259267	HOST Baculovirus-Insect Cells
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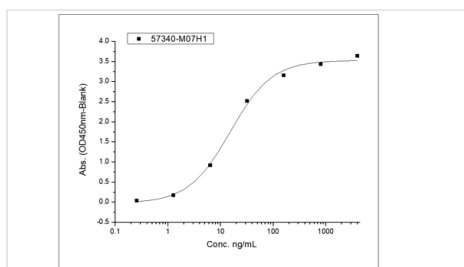
PRODUCT SYNONYMS

NKG2D; Recombinant Mouse NKG2D Protein (ECD; His Tag); killer cell lectin-like receptor subfamily K; member 1; D6H12S2489E Protein; Mouse; NKG2-D Protein; Nkg2d Protein; NKG2D recombinant protein

PRODUCT SPECIFICATIONS

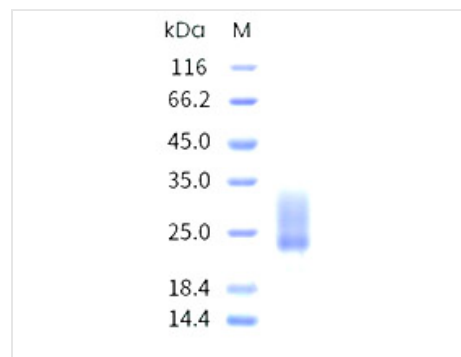
Host	Baculovirus-Insect Cells
Purity/Purification	>= 95% as determined by SDS-PAGE.
Form/Format	Lyophilized from sterile PBS, pH 7.4. Normally 5%-8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Species	Mouse
Predicted N Terminal	His
Endotoxin	<1.0 EU per ug of the protein as determined by the LAL method
Protein Construction	A DNA sequence encoding the Mouse KLRK1 (NP_001076791.1)(Asn87-Val219) was expressed, with a polyhistidine tag at the N-terminus.
Activity	Immobilized Recombinant Mouse NKG2D Protein (ECD, His Tag) at 2 ug/mL (100 uL/well) can bind Recombinant Human ULBP1/RAET1/N2DL1 Protein (His & Fc Tag) , the EC50 is 8-24 ng/mL.
Preparation and Storage	Samples are stable for up to twelve months from date of receipt at -20 degree C to -80 degree C. Store it under sterile conditions at -20 degree C to -80 degree C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

IMAGES



Application Data

Immobilized Recombinant Mouse NKG2D Protein (ECD, His Tag) (#AAA259267) at 2 ug/mL (100 uL/well) can bind Recombinant Human ULBP1 / RAET1 / N2DL1 Protein (His & Fc Tag) (Cat: 10679-H03H), the EC50 is 8-24 ng/mL.



Application Data

ADDITIONAL INFORMATION

Related Product Information for NKG2D recombinant protein	KLRK1 (Killer Cell Lectin Like Receptor K1) is a Protein Coding gene. NKG2D, also known as CD314, is an immune receptor that consists of two disulfide-linked type II transmembrane proteins with short intracellular proteins incapable to transduce signals. To transduce signals, NKG2D needs adaptor proteins and it uses two adaptor proteins, DAP10 and DAP12. These two adaptor proteins associate as homodimers to NKG2D- therefore the entire receptor complex appears as a hexamer. NKG2D can send co-stimulatory signals to activate CD8 T cells. NKG2D also plays an important role in viral control. Cellular stress can induce ligands for NKG2D which results in the cell susceptible to NK cell-mediated lysis.
References	Houchins J, et al. (1991) DNA sequence analysis of NKG2, a family of related cDNA clones encoding type II integral membrane proteins on human natural killer cells. J Exp Med. 173: 1017-102. Bauer S, et al. (1999) Activation of NK cells and T cells by NKG2D, a receptor for stress-inducible MICA. Science. 285(5428):727-9. Zafirova B, et al. (2011) Regulation of immune cell function and differentiation by the NKG2D receptor. Cell Mol Life Sci. 68(21):3519-29.

NCBI AND UNIPROT INFORMATION

Molecular Weight	The recombinant Mouse KLRK1 consisting of 143 amino acids and has a calculated molecular mass of 16.6 kDa. As a result of glycosylation, the recombinant protein migrates as an approximately 24 kDa and 21 kDa protein in SDS-PAGE under reducing conditions.
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For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/nkg2d-recombinant-protein-baculovirus-insect-cells/259267>