9853 Pacific Heights Blvd.
Suite D. San Diego,
CA 92121, USA
Tel: 858-263-4982
Email: info@abeomics.com

32-17960: Recombinant Mouse NKG2D Protein, hFc Tag

Uniprot ID : O54709
Alternative Name : NK cell receptor D, CD314, Klrk1, Nkg2d

Description

Molecular Characterization: hFc(Glu99-Ala330) Mouse NKG2D(Phe90-Val232)
Molecular weight: The protein has a predicted molecular mass of 42.6 kDa after removal of the signal peptide. The apparent molecular mass of hFc-mNKG2D is approximately 35-55 kDa due to glycosylation.
Description: Recombinant mouse NKG2D protein with N-terminal human Fc tag
Function as an activating and costimulatory receptor involved in immunosurveillance upon binding to various cellular stress-inducible ligands displayed at the surface of autologous tumor cells and virus-infected cells. Provides both stimulatory and costimulatory innate immune responses on activated killer (NK) cells, leading to cytotoxic activity. Acts as a costimulatory receptor for T-cell receptor (TCR) in CD8( ) T-cell-mediated adaptive immune responses by amplifying T-cell activation. Stimulates perforin-mediated elimination of ligand-expressing tumor cells. Signaling involves calcium influx, culminating in the expression of TNF-alpha. Participates in NK cell-mediated bone marrow graft rejection. May play a regulatory role in differentiation and survival of NK cells. Binds to ligands belonging to various subfamilies of MHC class I-related glycoproteins including RAET1A, RAET1B, RAET1C, RAET1D, RAET1E, H60 and MULT1.[UniProtKB/Swiss-Prot Function]

Product Info

Amount :	100 µg / 50 µg
Content :	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8% trehalose is added as protectants before lyophilization.
Storage condition :	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.