

For Research Use Only

Recombinant Mouse NKG2A protein (rFc Tag)



Catalog Number: Eg1508

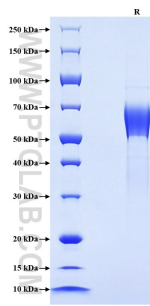
Basic Information	Species: Mouse	Purity: >90 %, SDS-PAGE	Tag: rFc Tag
Technical Specifications	Purity: >90 %, SDS-PAGE Endotoxin Level: <0.1 EU/μg protein, LAL method Source: HEK293-derived Mouse NKG2A protein Ala94-Ile244 (Accession# Q9Z202) with a rabbit IgG Fc tag at the N-terminus. GeneID: 16641 Accession: Q9Z202 Predicted Molecular Mass: 44.4 kDa SDS-PAGE: 50-70 kDa, reducing (R) conditions Formulation: Lyophilized from 0.22 μm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.		
Biological Activity	Not tested		
Storage and Shipping	Storage: It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. • Until expiry date, -20°C to -80°C as lyophilized proteins. • 3 months, -20°C to -80°C under sterile conditions after reconstitution. Shipping: The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.		
Reconstitution	Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.		
Background	KLRC1, also known as NKG2A (NKG2) and CD159A, is a single-pass type II membrane protein with extracellular C-type lectin domain. It belongs to the natural killer cell lectin-like receptor family, which is a group of transmembrane proteins preferentially expressed in NK cells. KLRC1 can form a heterodimer with CD94. The NKG2A/CD94 complex is an inhibitory receptor that recognizes HLA-E and is expressed by NK cells and a subset of T cells. NKG2A specifically binds HLA-E, a non-classical HLA class I molecule frequently overexpressed in tumors, leading to the transmission of inhibitory signals that strongly impair NK cell function.		
References	1. Kyrysyuk O, Wucherpfennig KW. (2023) Annu Rev Immunol. 41:17-38. 2. Mac Donald A, et al. (2023) Front Immunol. 14:1231916.		
Synonyms	CD159a, KLRC1		

For technical support and original validation data for this product please contact

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Selected Validation Data



Purity of Recombinant Mouse NKG2A was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) conditions and stained using Coomassie blue.