**Mouse NKG2A / NKG2 / CD159A / KLRC1 Protein (His Tag)**

**Catalog Number:** 50834-M07H

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**General Information**

**Gene Name Synonym:**
CD159a; NKG2A; NKG2B

**Protein Construction:**
A DNA sequence encoding the mouse Klrc1 (AAD24969.1) (Ala94-Ile244) was expressed with a polyhistidine tag at the N-terminus.

**Source:** Mouse

**Expression Host:** HEK293 Cells

**QC Testing**

**Purity:** >95% as determined by SDS-PAGE

**Endotoxin:**
<1.0 EU per μg of the protein as determined by the LAL method

**Stability:**
Samples are stable for up to twelve months from date of receipt at -70°C

**Predicted N terminal:** His

**Molecular Mass:**
The recombinant mouse Klrc1 consists of 171 amino acids and predicts a molecular mass of 19.6 KDa. It migrates as an approximately 33-40 KDa band in SDS-PAGE under reducing conditions.

**Formulation:**
Lyophilized from sterile PBS, pH 7.4.

Normally 5% - 8% trehalose, mannnitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

**Usage Guide**

**Storage:**
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage. Avoid repeated freeze-thaw cycles.

**Reconstitution:**
Detailed reconstitution instructions are sent along with the products.

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**SDS-PAGE:**

**Protein Description**

NKG2, also known as NKG2A(CD159A), is a member of the killer cell lectin-like receptor family. This family is a group of transmembrane proteins preferentially expressed in NK cells. Members of this family are characterized by the type II membrane orientation and the presence of a C-type lectin domain. NKG2 contains 1 C-type lectin domain and forms a complex with another family member, KLRC1/CD94. It is expressed only in NK-cells, but not in T-cells or B-cells. It has been shown that NKG2 represents a family of related cDNA clones, designated NKG2A, NKG2B, NKG2C, and NKG2D, which encode type 2 integral membrane proteins (extracellular C-terminus) containing a C-type lectin domain. 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. NKG2 functions as a receptor for the recognition of MHC class I HLA-E molecules by NK cells and some cytotoxic T-cells.

**References**


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