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Product Information

MemDX™ Antibody Discovery - Human NKG2A&CD94 (113-233(NKG2A)&57-179(CD94))

Membrane Protein, Partial, -mIgG2a Fc tag

Cat. No.: **MP0687F**
This product is for research use only and is not intended for diagnostic use.

This membrane protein is Human NKG2A&CD94 (113-233(NKG2A)&57-179(CD94)). It has been tested in SDS-PAGE, ELISA. We provide this protein to facilitate your membrane protein antibody discovery and development.

Product Specifications

Host Species
Human

Target Protein
NKG2A&CD94

Protein Length
ECD

Molecular Weight
The protein has a calculated MW of 55.5 kDa. The protein migrates as 65-80 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Sequence
AA Ala 113 - Leu 233 (NKG2A) & Asp 57 - Ile 179 (CD94) (Accession # P26715-1 (NKG2A) & Q13241-1 (CD94)).

Product Description

Activity
Yes

Application
SDS-PAGE, ELISA

Expression Systems
HEK293

Tag
Mouse IgG2a Fc tag at the C-terminus

Protein Format
Soluble

Form

LYOPH

Reconstitution

Please see Certificate of Analysis for specific instructions.

Endotoxin

<1.0 EU/μg by the LAL method

Purity

>95% as determined by SDS-PAGE.

Buffer

Lyophilized from 0.22 μm filtered solution in 50 mM Tris, 100 mM Glycine, 150 mM NaCl, pH7.5. Normally trehalose is added as protectant before lyophilization.

Storage

Avoid repeated freeze-thaw cycles.The product MUST be stored at -70°C or lower upon receipt;

-70°C for 3 months under sterile conditions.

Target

Target Protein

NKG2A&CD94

Full Name

killer cell lectin like receptor C1&killer cell lectin like receptor D1

Introduction

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. The protein encoded by this gene belongs to the killer cell lectin-like receptor family, also called NKG2 family, which is a group of transmembrane proteins preferentially expressed in NK cells. This family of proteins is characterized by the type II membrane orientation and the presence of a C-type lectin domain. This protein forms a complex with another family member, KLRD1/CD94, and has been implicated in the recognition of the MHC class I HLA-E molecules in NK cells. The genes of NKG2 family members form a killer cell lectin-like receptor gene cluster on chromosome 12. Multiple alternatively spliced transcript variants encoding distinct isoforms have been observed. & Natural killer (NK) cells are a distinct lineage of lymphocytes that mediate cytotoxic activity and secrete cytokines upon immune stimulation. Several genes of the C-type lectin superfamily, including members of the NKG2 family, are expressed by NK cells and may be involved in the regulation of NK cell function. KLRD1 (CD94) is an antigen preferentially expressed on NK cells and is classified as a type II membrane protein because it has an external C terminus. Several transcript variants encoding different isoforms have been found for this gene.

Alternative Names

NKG2A & CD94

Gene ID

3821; 3824

UniProt ID

P26715; Q13241