

Bioactive

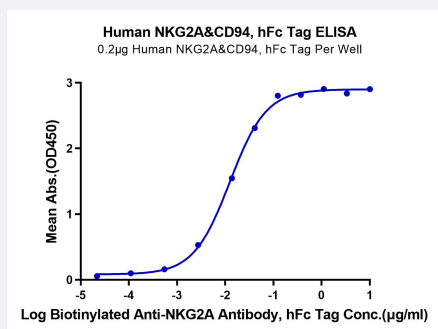
HuPro®

KLRC1/KLRD1 (Human) Recombinant Protein

Catalog # P9855

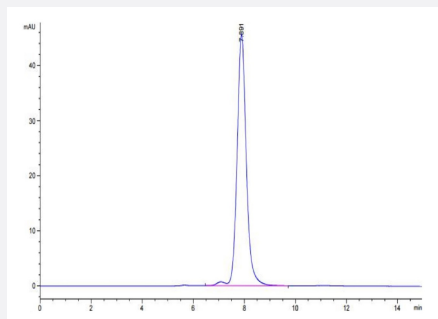
Size 100 ug

Applications



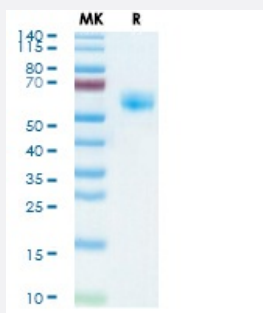
Enzyme-linked Immunoabsorbent Assay

Immobilized Human NKG2A&CD94, hFc Tag at 2 ug/mL (100 uL/Well) on Fc Antibody (2 ug/mL) precoated plate. Dose response curve for Biotinylated Anti-NKG2A Antibody, hFc Tag with the EC50 of 40.8 ng/mL determined by ELISA.



SEC-HPLC

The purity of Human NKG2A&CD94 is greater than 95% as determined by SEC-HPLC.



Tris-Bis PAGE

Human NKG2A&CD94 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

Specification

Product Description

Human KLRC1/KLRD1 (P26715-1/Q13241-1, Arg100-Leu233/Ser34-Ile179) partial recombinant protein with hFc tag and Flag at N-Terminus expressed in HEK293 cells.

Sequence	Arg100-Leu233;Ser34-Ile179
Host	Human
Theoretical MW (kDa)	41.1
Form	Lyophilized
Preparation Method	Mammalian cell (HEK293) expression system
Purity	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin Level	< 1 EU per 1 ug of protein (determined by LAL method)
Activity	The EC ₅₀ was 40.8 ng/mL, measured by ELISA at 2 ug/mL.
Quality Control Testing	SEC-HPLC and Tris-Bis PAGE SEC-HPLC The purity of Human NKG2A&CD94 is greater than 95% as determined by SEC-HPLC. Tris-Bis PAGE Human NKG2A&CD94 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.
Recommend Usage	Biological Activity ELISA SDS-PAGE The optimal working dilution should be determined by the end user.
Storage Buffer	Lyophilized from sterile distilled Water is > 100 ug/mL
Storage Instruction	Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Result of bioactivity analysis

Applications

- Enzyme-linked Immunoabsorbent Assay

Immobilized Human NKG2A&CD94, hFc Tag at 2 ug/mL (100 uL/Well) on Fc Antibody (2 ug/mL) precoated plate. Dose response curve for Biotinylated Anti-NKG2A Antibody, hFc Tag with the EC50 of 40.8 ng/mL determined by ELISA.

- Functional Study

- SDS-PAGE

Gene Info — KLRC1

Entrez GeneID	3821
Protein Accession#	P26715-1;Q13241-1
Gene Name	KLRC1
Gene Alias	CD159A, MGC13374, MGC59791, NKG2, NKG2A
Gene Description	killer cell lectin-like receptor subfamily C, member 1
Omim ID	161555
Gene Ontology	Hyperlink
Gene Summary	<p>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. Four alternatively spliced transcript variants encoding two distinct isoforms have been observed. [provided by RefSeq]</p>
Other Designations	C-lectin type II protein NK cell receptor A NKG2-1/B activating NK receptor NKG2-A/B type II integral membrane protein natural killer cell lectin natural killer group protein 2

Gene Info — KLRD1

Entrez GeneID	3824
Protein Accession#	P26715-1;Q13241-1
Gene Name	KLRD1
Gene Alias	CD94
Gene Description	killer cell lectin-like receptor subfamily D, member 1
Omim ID	602894
Gene Ontology	Hyperlink
Gene Summary	<p>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. Three transcript variants encoding two different isoforms have been found for this gene. [provided by RefSeq]</p>

Pathway

- [Antigen processing and presentation](#)
- [Antigen processing and presentation](#)
- [Graft-versus-host disease](#)
- [Graft-versus-host disease](#)
- [Natural killer cell mediated cytotoxicity](#)
- [Natural killer cell mediated cytotoxicity](#)

Disease

- [Abortion](#)
- [Arthritis](#)
- [Arthritis](#)
- [Behcet Syndrome](#)
- [Genetic Predisposition to Disease](#)
- [Genetic Predisposition to Disease](#)
- [Hepatitis B](#)
- [Hepatitis B](#)
- [Lupus Erythematosus](#)
- [Lupus Erythematosus](#)
- [Tobacco Use Disorder](#)