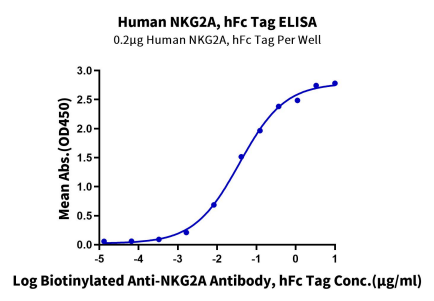
Bioactive CellTx™ HuPro®

KLRC1 (Human) Recombinant Protein

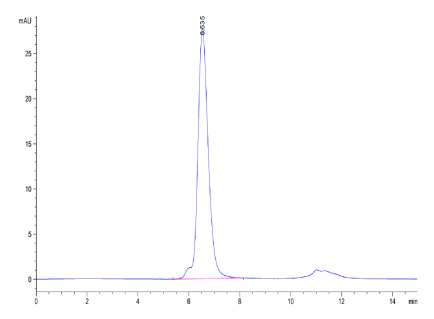
Catalog # P10037 Size 100 ug

Applications



Enzyme-linked Immunoabsorbent Assay

Immobilized Human NKG2A, 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 EC_{50} of 37.1 ng/ml determined by ELISA.



SEC-HPLC

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

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Tris-Bis PAGE

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

Specification

Product Description	Human KLRC1 (P26715-1, Arg100-Ala219) partial recombinant protein with hFc tag at N-terminus expressed in HEK293 cells.
Sequence	Arg100-Ala219
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)
Quality Control Testing	SEC-HPLC SEC-HPLC The purity of Human NKG2A is greater than 95% as determined by SEC-HPLC. Tris-Bis PAGE Human NKG2A on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

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Recommend Usage	Biological Activity ELISA SEC-HPLC Tris-Bis PAGE The optimal working dilution should be determined by the end user.
Storage Buffer	Lyophilized from filtered solution in PBS, pH 7.4 (5% trehalose).
Storage Instruction	After reconstitution with deionized water to a final concentration more than 100 ug/ml, store at 4°C for 1 week. For long term storage, store at -80°C for 1 year. Aliquot to avoid repeated freezing and thawing.

Applications

- Functional Study
- Enzyme-linked Immunoabsorbent Assay

  Immobilized Human NKG2A, 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 EC_{50} of 37.1 ng/ml determined by ELISA.

Gene Info — KLRC1

Entrez GeneID	3821
Protein Accession#	P26715-1
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

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Gene Summary	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
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

Pathway

- Antigen processing and presentation
- Graft-versus-host disease
- Natural killer cell mediated cytotoxicity

Disease

- Abortion
- Arthritis
- Behcet Syndrome
- Genetic Predisposition to Disease
- Hepatitis B
- Lupus Erythematosus
- Tobacco Use Disorder

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