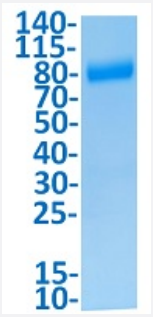
Bioactive HuPro®

KLRC1/KLRD1 (Human) Recombinant Protein

Catalog # P6742 Size 100 ug

Applications



Result of activity analysis

Result of activity analysis

Specification

Product Description	Human KLRC1/KLRD1 (100 a.a. - 233 a.a./34 a.a. - 179 a.a.) partial recombinant protein with a mFc tag at the C-terminus expressed in Expi293 cells.
Host	Human
Form	Lyophilized
Preparation Method	Mammalian cell (Expi293) expression system
Purification	Protein A purification
Purity	> 95% (determined by Tris-Bis PAGE)
Endotoxin Level	< 1 EU/ug of protein (determined by LAL method)

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Activity	Immobilized human KLRC1/KLRD1, His tag at 0.5 ug/mL (100 uL/well). Dose response curve for Anti-KLRC1/KLRD1 Ab with the EC_{50} of 0.2 ug/mL determined by ELISA.
Quality Control Testing	Tris-Bis PAGE under reduced condition.
Recommend Usage	Tris-Bis PAGE The optimal working dilution should be determined by the end user.
Conformation	Heterodimer
Storage Buffer	Lyophilized from a 0.22 um filtered solution of PBS, pH 7.4.
Storage Instruction	Store at -80°C on dry atmosphere, lyophilized antibodies are stable at least 2 years. After reconstitution with deionized water, store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Note	Result of activity analysis Result of activity analysis

Applications

- SDS-PAGE

Gene Info — KLRC1

Entrez GeneID	3821
Protein Accession#	P26715;Q13241
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

Gene Info — KLRD1

Entrez GeneID	3824
Protein Accession#	P26715;Q13241
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	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
Other Designations	CD94 antigen

Pathway

- Antigen processing and presentation
- Antigen processing and presentation
- Graft-versus-host disease

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- 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

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