

NKp80/KLRF1 Recombinant Protein | KLRF1 recombinant protein

Recombinant Human NKp80/KLRF1 Protein (hFc Tag), HPLC-verified

CATALOG # AAA259285	HOST HEK293 Cells	REACTIVITY Human
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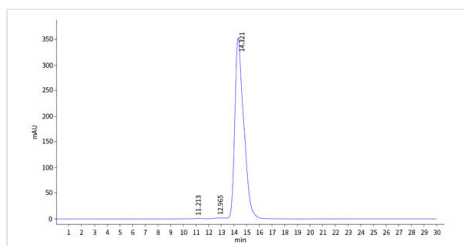
PRODUCT SYNONYMS

NKp80/KLRF1; Recombinant Human NKp80/KLRF1 Protein (hFc Tag); HPLC-verified; Human NKp80/KLRF1 Protein (Fc Tag); killer cell lectin like receptor F1; CLEC5C Protein; Human; ML Protein; NKp80 Protein; KLRF1 recombinant protein

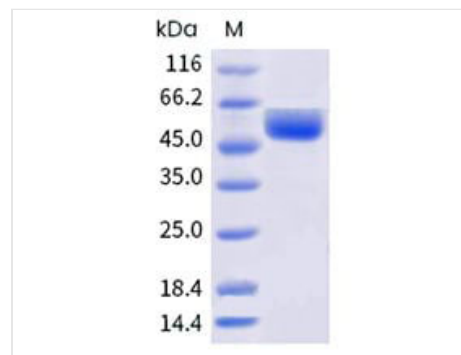
PRODUCT SPECIFICATIONS

Host	HEK293 Cells
Reactivity	Human
Purity/Purification	>= 90% as determined by SDS-PAGE. >= 90% as determined by SEC-HPLC.
Form/Format	Lyophilized from sterile 20 mM MES, 150 mM NaCl, 8% Glycerol, 10% trehalose, pH 6.0. Normally 5%-8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Sequence	Val66-Tyr2 31
Tag	N-human IgG1-Fc
Predicted N Terminal	Glu
Endotoxin	< 1.0 EU perug of the protein as determined by the LAL method
Activity	Measured by the ability of the immobilized protein to support the adhesion of U937 human histiocytic lymphoma cells (Routinely tested).
Protein Construction	A DNA sequence encoding the Human KLRF1 (NP_057607.1)(Val66-Tyr231) was expressed with the Fc region of human IgG1 at the N-terminus.
Preparation and Storage	Samples are stable for up to twelve months from date of receipt at -20 degree C to -80 degree C. Store it under sterile conditions at -20 degree C to -80 degree C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

IMAGES



Application Data



Application Data

ADDITIONAL INFORMATION

Related Product Information for KLRF1 recombinant protein	NKp80, also known as KLRF1, is an activating homodimeric C-type lectin-like receptor that is expressed on nearly all-natural killer cells and stimulates their cytotoxicity and cytokine release. NKp80 stimulates cytotoxicity upon engagement of its genetically linked ligand: myeloid-specific CTLR activation-induced C-type lectin (AICL). NKp80, but not NKp80 mutated at tyrosine 7 (NKp80/Y7F), is tyrosine phosphorylated. Accordingly, NKp80/Y7F, but not NKp80/Y3F or NKp80/Y37F, failed to induce cytotoxicity. NKp80 phosphopeptides comprising the Hemi-ITAM-like sequence surrounding tyrosine 7 bound Lck- and Syk-family kinases; accordingly, cross-linking of NKp8, but not NKp80/Y7F, induced Syk phosphorylation. Moreover, inhibition of Syk kinase, but not ZAP-7 kinase, impaired cytotoxic responses through NKp80. Atypical residues in the Hemi-ITAM-like motif of NKp80 cause an altered stoichiometry of phosphorylation but did not substantially affect NK cytotoxicity. Altogether, these results show that NKp80 uses an atypical Hemi-ITAM and Syk kinase to trigger cellular cytotoxicity.
Product Categories/Family for KLRF1 recombinant protein	ITIM/ITAM Immunoreceptors and Related Molecules
References	Kuttruf. S. e. al.. 2009. Blood.11. (2). 358-69. Dennehy. KM. e. al.. 2011. . Immunol. 18. (2). 657-61. Roda-Navarr. P. e. al.. 2000. Eu. . Immunol. 3. (2). 568-76.

NCBI AND UNIPROT INFORMATION

NCBI GI #	7705574
NCBI GeneID	51348
NCBI Accession #	NP_057607.1
NCBI GenBank Nucleotide #	NM_016523.1
UniProt Accession #	Q9NZS2; Q4KMT5; Q96PR2; Q96PR3; Q9NZS1
Molecular Weight	26,666 Da
NCBI Official Full Name	killer cell lectin-like receptor subfamily F member 1
NCBI Official Synonym Full Names	killer cell lectin-like receptor subfamily F, member 1
NCBI Official Symbol	KLRF1
NCBI Official Synonym Symbols	NKp80; CLEC5C
NCBI Protein Information	killer cell lectin-like receptor subfamily F member 1; lectin-like receptor F1; activating coreceptor NKp80; killer cell lectin-like receptor F1; C-type lectin domain family 5 member C
UniProt Protein Name	Killer cell lectin-like receptor subfamily F member 1
UniProt Gene Name	KLRF1
UniProt Synonym Gene Names	CLEC5C; ML; Lectin-like receptor F1
UniProt Entry Name	KLRF1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.