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KLRK1, human recombinant protein

NKG2-D type II integral membrane protein, CD314, D12S2489E, KLR, NKG2-D, NKG2D

Catalog # PBV10980r

Specification

KLRK1, human recombinant protein - Product info

Primary Accession	P26718
Concentration	0.5
Calculated MW	19.2 kDa (168 aa, 73-216 aa + His Tag), confirmed by MALDI-TOF. KDa

KLRK1, human recombinant protein - Additional Info

Gene ID	22914
Gene Symbol	KLRK1

Other Names

NKG2-D type II integral membrane protein, CD314, D12S2489E, KLR, NKG2-D, NKG2D

Gene Source	Human
Source	E. coli
Assay&Purity	SDS-PAGE; ≥90%
Assay2&Purity2	N/A;
Recombinant	Yes
Sequence	MGSSHHHHHH SSGLVPRGSH MGSMIWSAVF LNSLFNQEVQ IPLTESYCGP CPKNWICYKN NCYQFFDESK NWYESQASCM SQNASLLKVY SKEDQDLLKL VKSYHWMGLV HIPTNGSWQW EDGSILSPNL LTIIEMQKGD CALYASSFKG YIENCSTPNT YICMQRTV

Target/Specificity

KLRK1

Format

Liquid

Storage

-80°C; 0.5 mg/ml in 20 mM Tris-HCl buffer (pH 8.0) containing 0.4 M Urea and 10% glycerol.

KLRK1, human recombinant protein - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation

- Flow Cytomety
- Cell Culture

KLRK1, human recombinant protein - Images

KLRK1, human recombinant protein - Background

KLRK1 is an activating receptor that has recently generated considerable interest. The most intriguing of these are a pair of closely related proteins called MICA and MICB. These are cell-surface molecules distantly related to MHC class I proteins, and the genes possess elements of heat shock promoters. MICA and MICB, therefore, are expressed during cell stress and are up-regulated in tumor cells and during viral infections. This receptor-ligand combination may play a critical role in the immune response to a variety of pathologies. Recombinant human KLRK1 protein, fused to His-tag at N-terminus, was expressed in E.coli.

KLRK1, human recombinant protein - References

Houchins J.P.,et al.J. Exp. Med. 173:1017-1020(1991).
Glienke J.,et al.Immunogenetics 48:163-173(1998).
Kothapalli R.,et al.Submitted (DEC-2001) to the EMBL/GenBank/DDBJ databases.
Shum B.P.,et al.J. Immunol. 168:240-252(2002).
Ota T.,et al.Nat. Genet. 36:40-45(2004).