10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.622.0609

KLRD1 Antibody (N-term) Blocking Peptide

Synthetic peptide
Catalog # BP8631a

Specification

KLRD1 Antibody (N-term) Blocking Peptide - Product Information

Primary Accession Q13241

KLRD1 Antibody (N-term) Blocking Peptide - Additional Information

Gene ID 3824

Other Names
Natural killer cells antigen CD94, KP43, Killer cell lectin-like receptor subfamily D member 1, NK cell receptor, CD94, KLRD1, CD94

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP8631a was selected from the N-term region of human KLRD1. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

KLRD1 Antibody (N-term) Blocking Peptide - Protein Information

Name KLRD1

KLRD1 Antibody (N-term) Blocking Peptide - Background

KLRD1 plays a role as a receptor for the recognition of MHC class I HLA-E molecules by NK cells and some cytotoxic T-cells.

KLRD1 Antibody (N-term) Blocking Peptide - References

Chang,C., et.al., Eur. J. Immunol. 25 (9), 2433-2437 (1995)Rodriguez,A., et.al., Immunogenetics 47 (4), 305-309 (1998)

Synonyms CD94

Function
Immune receptor involved in self-nonself discrimination. In complex with KLRC1 or KLRC2 on cytotoxic and regulatory lymphocyte subsets, recognizes non-classical major histocompatibility (MHC) class Ib molecule HLA-E loaded with self-peptides derived from the signal sequence of classical MHC class Ia and non-classical MHC class Ib molecules (PubMed:9486650, PubMed:10023772, PubMed:18083576, PubMed:18064301, PubMed:9754572). Enables cytotoxic cells to monitor the expression of MHC class I molecules in healthy cells and to tolerate self (PubMed:9430220, PubMed:12387742, PubMed:18064301). Primarily functions as a ligand binding subunit as it lacks the capacity to signal.

Cellular Location
Cell membrane; Single-pass type II membrane protein

Tissue Location
Expressed in NK cell subsets (at protein level) (PubMed:21825173, PubMed:9430220, PubMed:9485206). Expressed in memory/effector CD8-positive alpha-beta T cell subsets (at protein level) (PubMed:12387742, PubMed:20952657). Expressed in melanoma- specific cytotoxic T cell clones (at protein level) (PubMed:9485206) Expressed in terminally differentiated cytotoxic gamma-delta T cells (at protein level) (PubMed:20952657).

KLRD1-KLRC1 and KLRD1-KLRC2 are differentially expressed in NK and T cell populations, with only minor subsets expressing both receptor complexes (at protein level) (PubMed:20952657).

KLRD1 Antibody (N-term) Blocking Peptide - Protocols

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

- Blocking Peptides