Anti-KLRK1 antibody

Cat. No.	ml263091
Package	25 μl/100 μl/200 μl
Storage	-20°C, pH7.4 PBS, 0.05% NaN3, 40% Glycerol

Product overview

Description	Anti-KLRK1 rabbit polyclonal antibody
Applications	ELISA, IHC
Immunogen	Synthetic peptide of human KLRK1
Reactivity	Human, Mouse, Rat
Content	0.2 mg/ml
Host species	Rabbit
Ig class	Immunogen-specific rabbit IgG
Purification	Antigen affinity purification

Target information

Symbol	KLRK1
Full name	killer cell lectin like receptor K1
Synonyms	KLR; CD314; NKG2D; NKG2-D; D12S2489E
Swissprot	P26718

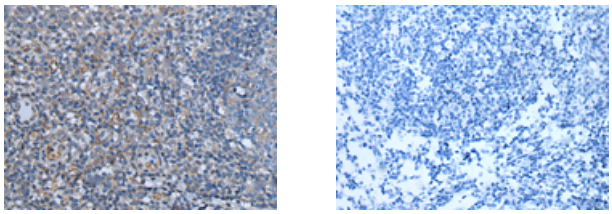
Target Background

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. NK cells preferentially express several calcium-dependent (C-type) lectins, which have been implicated in the regulation of NK cell function. The NKG2 gene family is located within the NK complex, a region that contains several C-type lectin genes preferentially expressed in NK cells. This gene encodes a member of the NKG2 family. The encoded transmembrane protein is characterized by a type II membrane orientation (has an extracellular C terminus) and the presence of a C-type lectin domain. It binds to a diverse family of ligands that include MHC class I chain-related A and B proteins and UL-16 binding proteins, where ligand-receptor interactions can result in the activation of NK and T cells. The surface expression of these ligands is important for the recognition of stressed cells by the immune system, and thus this protein and its ligands are therapeutic targets for the treatment of immune diseases and cancers. Read-through transcription exists between this gene and the upstream KLRC4 (killer cell lectin-like receptor subfamily C, member 4) family member in the same cluster.

Applications

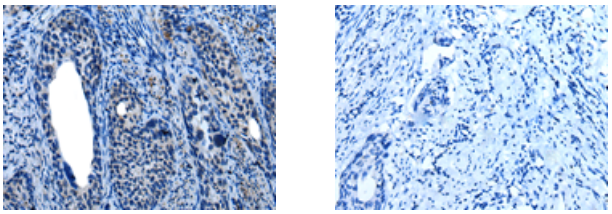
Immunohistochemistry

Predicted cell location: Cell membrane
Positive control: Human tonsil
Recommended dilution: 10-50



The image on the left is immunohistochemistry of paraffin-embedded Human tonsil tissue using ml263091(KLRK1 Antibody) at dilution 1/25, on the right is treated with synthetic peptide. (Original magnification: ×200)

Predicted cell location: Cell membrane
Positive control: Human cervical cancer
Recommended dilution: 10-50



The image on the left is immunohistochemistry of paraffin-embedded Human cervical cancer tissue using ml263091(KLRK1 Antibody) at dilution 1/25, on the right is treated with synthetic peptide. (Original magnification: ×200)

ELISA

Recommended dilution: 5000-10000

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