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KLRC2 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP8630a

Product Information

Application	WB, FC, IHC-P, E
Primary Accession	P26717
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB21886
Calculated MW	26159
Antigen Region	1-30

Additional Information

Gene ID	3822
Other Names	NKG2-C type II integral membrane protein, CD159 antigen-like family member C, NK cell receptor C, NKG2-C-activating NK receptor, CD159c, KLRC2, NKG2C
Target/Specificity	This KLRC2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human KLRC2.
Dilution	WB~~1:1000 FC~~1:10~50 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	KLRC2 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	KLRC2
Synonyms	NKG2C {ECO:0000303|PubMed:18083576}

Function	Immune activating receptor involved in self-nonself discrimination. In complex with KLRD1 on cytotoxic lymphocyte subsets, recognizes non-classical major histocompatibility (MHC) class Ib HLA-E loaded with signal sequence-derived peptides from non-classical MHC class Ib HLA-G molecules, likely playing a role in the generation and effector functions of adaptive natural killer (NK) cells and in maternal-fetal tolerance during pregnancy (PubMed:30134159, PubMed:37264229, PubMed:9754572). Regulates the effector functions of terminally differentiated cytotoxic lymphocyte subsets, and in particular may play a role in adaptive NK cell response to viral infection (PubMed:20952657, PubMed:21825173). Upon HLA-E-peptide binding, transmits intracellular signals via the adapter protein TYROBP/DAP12, triggering the phosphorylation of proximal signaling molecules and cell activation (PubMed:15940674, PubMed:9655483).
Cellular Location	Cell membrane; Single-pass type II membrane protein
Tissue Location	Expressed in NK cell subsets, in particular in adaptive CD57-positive NK cells (at protein level) (PubMed:20952657, PubMed:21825173). Expressed in terminally differentiated cytotoxic gamma-delta T cells (at protein level) (PubMed:20952657). Expressed in alpha-beta T cells subsets (at protein level) (PubMed:20952657). KLRD1- KLRC1 and KLRD1-KLRC2 are differentially expressed within NK and T cell populations, with only minor subsets expressing both receptor complexes (at protein level) (PubMed:20952657).

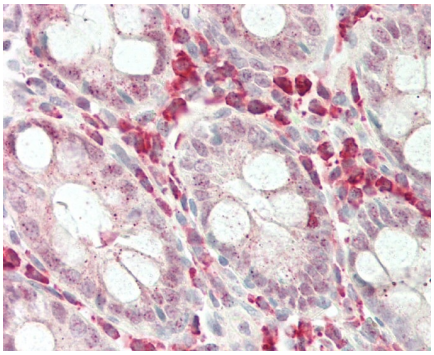
Background

KLRC2 plays a role as a receptor for the recognition of MHC class I HLA-E molecules by NK cells and some cytotoxic T-cells.

References

Seo,J., et.al., Tissue Antigens 70 (4), 307-313 (2007)
Park,K.S., et.al., Tissue Antigens 72 (4), 342-346 (2008)

Images



Formalin-fixed and paraffin-embedded H.colon tissue reacted with KLRC2 Antibody (N-term) (Cat#AP8630a).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.