

KIR2DL4 Antibody (C-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP9042B

Specification

KIR2DL4 Antibody (C-term) - Product Information

| | |
|-------------------|------------------------|
| Application | WB, IHC-P, FC,E |
| Primary Accession | Q99706 |
| Reactivity | Human |
| Host | Rabbit |
| Clonality | Polyclonal |
| Isotype | Rabbit IgG |
| Antigen Region | 296-323 |

KIR2DL4 Antibody (C-term) - Additional Information

Gene ID 3805

Other Names

Killer cell immunoglobulin-like receptor 2DL4, CD158 antigen-like family member D, G9P, Killer cell inhibitory receptor 103AS, KIR-103AS, MHC class I NK cell receptor KIR103AS, CD158d, KIR2DL4, CD158D, KIR103AS

Target/Specificity

This KIR2DL4 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 296-323 amino acids from the C-terminal region of human KIR2DL4.

Dilution

WB~~1:1000
IHC-P~~1:10~50
FC~~1:10~50

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

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

KIR2DL4 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

KIR2DL4 Antibody (C-term) - Protein Information

Name KI2L4

Function Receptor for non-classical major histocompatibility class Ib HLA-G molecules. Recognizes HLA-G in complex with B2M/beta-2 microglobulin and a nonamer self-peptide (peptide-bound HLA-G-B2M). In decidual NK cells, binds peptide-bound HLA-G-B2M complex and triggers NK cell senescence-associated secretory phenotype as a molecular switch to promote vascular remodeling and fetal growth in early pregnancy (PubMed:[23184984](#), PubMed:[29262349](#), PubMed:[16366734](#)). May play a role in balancing tolerance and antiviral-immunity at maternal-fetal interface by keeping in check the effector functions of NK, CD8+ T cells and B cells (PubMed:[10190900](#), PubMed:[16366734](#)). Upon interaction with peptide-bound HLA-G-B2M, initiates signaling from the endosomal compartment leading to downstream activation of PRKDC-XRCC5 and AKT1, and ultimately triggering NF-kappa-B-dependent pro-inflammatory response (PubMed:[20179272](#)).

Cellular Location

Cell membrane; Single-pass type I membrane protein. Early endosome membrane

Tissue Location

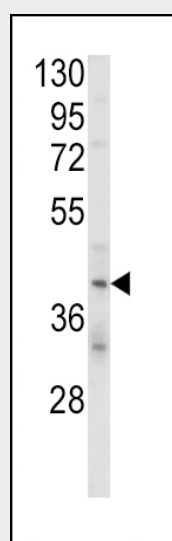
Expressed in decidual NK cells and innate lymphoid cell type I (ILC1) (PubMed:[29262349](#)). Expressed in a subset of peripheral NK cells (PubMed:[19304799](#)).

KIR2DL4 Antibody (C-term) - Protocols

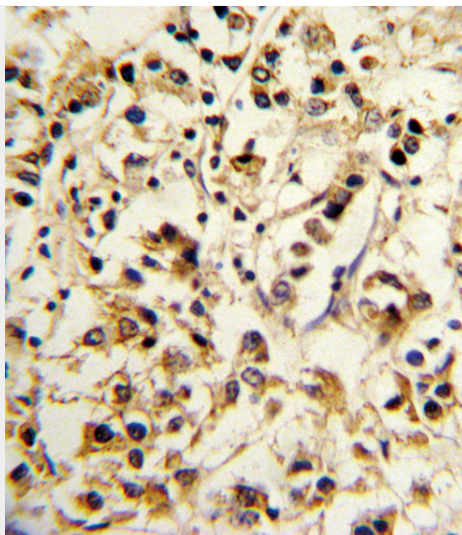
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

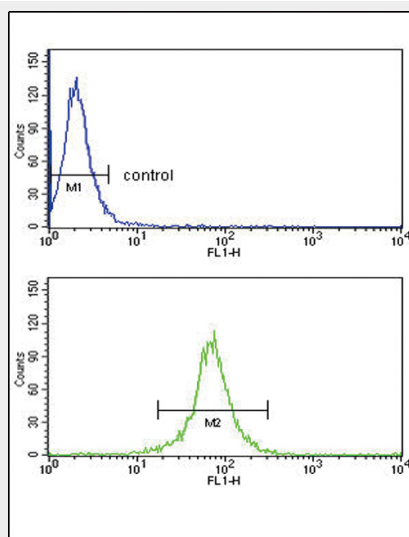
KIR2DL4 Antibody (C-term) - Images



Western blot analysis of KIR2DL4 Antibody (C-term) (Cat. #AP9042b) in MDA-MB231 cell line lysates (35ug/lane). KIR2DL4 (arrow) was detected using the purified Pab.



Formalin-fixed and paraffin-embedded human breast carcinoma reacted with KIR2DL4 Antibody (C-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



KIR2DL4 Antibody (C-term) (Cat.#AP9042b) flow cytometry analysis of MDA-MB231 cells (bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

KIR2DL4 Antibody (C-term) - Background

KIR2DL4 is killer cell immunoglobulin-like receptors (KIRs) which are transmembrane glycoproteins expressed by natural killer cells and subsets of T cells. The KIR genes are polymorphic and highly homologous and they are found in a cluster on chromosome 19q13.4 within the 1 Mb leukocyte receptor complex (LRC).

KIR2DL4 Antibody (C-term) - References

Hollenbach, J.A., et.al., Tissue Antigens (2010) In press
Varla-Leftherioti, M., et.al., Tissue Antigens (2010) In press

KIR2DL4 Antibody (C-term) - Citations

- [Genetic polymorphisms and expression of HLA-G and its receptors, KIR2DL4 and LILRB1, in](#)

[non-small cell lung cancer.](#)