

Anti-CD314 Antibody

Catalog # AP95910

Product Information

Application	WB, FC
Primary Accession	P26718
Reactivity	Human, Rat
Host	Mouse
Clonality	Monoclonal
Calculated MW	25304

Additional Information

Gene ID	22914
Other Names	D12S2489E; NKG2D; NKG2-D type II integral membrane protein; Killer cell lectin-like receptor subfamily K member 1; NK cell receptor D; NKG2-D-activating NK receptor; CD314
Target/Specificity	Recombinant fusion protein of human CD314 expressed in E. Coli
Dilution	WB~~WB (1/500 - 1/1000) FC~~FC (1/100 - 1/200)
Format	Mouse IgG2a. Liquid in PBS, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

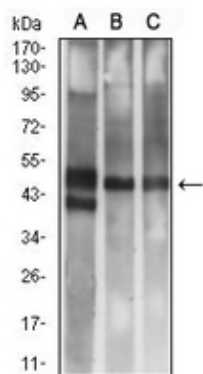
Name	KLRK1
Synonyms	D12S2489E, NKG2D
Function	Functions as an activating and costimulatory receptor involved in immunosurveillance upon binding to various cellular stress- inducible ligands displayed at the surface of autologous tumor cells and virus-infected cells. Provides both stimulatory and costimulatory innate immune responses on activated killer (NK) cells, leading to cytotoxic activity. Acts as a costimulatory receptor for T-cell receptor (TCR) in CD8(+) T-cell-mediated adaptive immune responses by amplifying T-cell activation. Stimulates perforin-mediated elimination of ligand-expressing tumor cells. Signaling involves calcium influx, culminating in the expression of TNF. Participates in NK cell-mediated bone marrow graft rejection. May play a regulatory role in differentiation and survival of NK cells. Binds to ligands belonging to various subfamilies of MHC class I-related glycoproteins including MICA, MICB, RAET1E, RAET1G, RAET1L/ULBP6, ULBP1, ULBP2, ULBP3 (ULBP2>ULBP1>ULBP3) and ULBP4.

Cellular Location

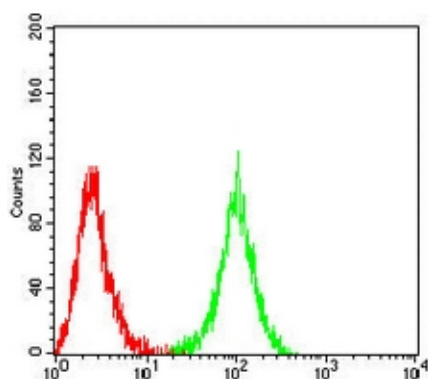
Cell membrane; Single-pass type II membrane protein Note=Colocalized with HCST on the cell surface

Tissue Location

Expressed in natural killer (NK) cells, CD8(+) alpha-beta and gamma-delta T-cells. Expressed on essentially all CD56+CD3- NK cells from freshly isolated PBMC. Expressed in interferon- producing killer dendritic cells (IKDCs).

Images

Western blot analysis of CD314 expression in rat Spleen (A), A549 (B), HepG2 (C) whole cell lysates. (Predicted band size: 25 kD; Observed band size: 45 kD)



Flow cytometric analysis of Jurkat cells using Anti-CD314 Antibody (green) and negative control (red).

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