

Rabbit anti-Human, Mouse KLRK1 Polyclonal Antibody | anti-KLRK1 antibody

KLRK1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA325435	Rabbit	Human, Mouse	ELISA, Immunocytochemistry, Immunofluorescence, Western Blot

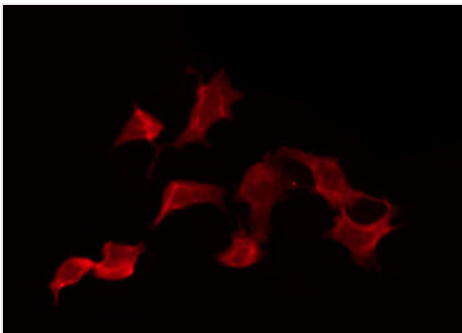
PRODUCT SYNONYMS

KLRK1; Polyclonal Antibody; KLRK1 Antibody; CD314; CD314 antigen; D12S2489E; Killer cell lectin like receptor subfamily K member 1; Killer cell lectin-like receptor subfamily K member 1; KLR; KLRC4 KLRK1 readthrough; NK cell receptor D; NK lectin-like receptor; NKG2 D activating NK receptor; NKG2 D type II integral membrane protein; NKG2-D; NKG2-D type II integral membrane protein; NKG2-D-activating NK receptor; Nkg2d; NKG2D_HUMAN; NKLLR; NKR P2; Nkrp2; anti-KLRK1 antibody

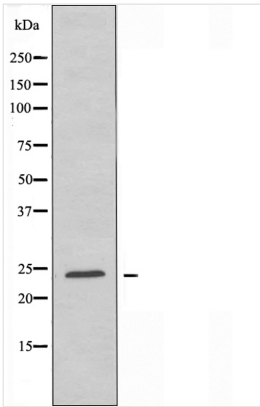
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	IgG
Specificity	KLRK1 antibody detects endogenous levels of total KLRK1
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	216
Applicable Applications for anti-KLRK1 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide
Subcellular Location	Membrane.
Tissue Specificity	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).
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IF (Immunofluorescence)
AAA325435 staining NIH-3T3 by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.



WB (Western Blot)
Western blot analysis of extracts from NIH/3T3 cells using KLRK1 antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-KLRK1 antibody	Function: Function 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-alpha. 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. Subunit Structure: Homodimer; disulfide-linked. Heterohexamer composed of two subunits of KLRK1 and four subunits of HCST/DAP10. Interacts (via transmembrane domain) with HCST/DAP10 (via transmembrane domain); the interaction is required for KLRK1 NK cell surface and induces NK cell-mediated cytotoxicity. Does not interact with TYROBP. Interacts with CEACAM1; recruits PTPN6 that dephosphorylates VAV1 (PubMed:23696226).
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NCBI AND UNIPROT INFORMATION

NCBI GI #	315221164
NCBI GeneID	100528032
NCBI Accession #	NP_001186734.1
NCBI GenBank Nucleotide #	NM_001199805.1
UniProt Accession #	P26718; Q9NR41; A8K7K5; A8K7P4
Molecular Weight	Observed: 25 kD Predicted: 26 kDa
NCBI Official Full Name	NKG2-D type II integral membrane protein
NCBI Official Synonym Full Names	KLRC4-KLRK1 readthrough
NCBI Official Symbol	KLRC4-KLRK1
NCBI Protein Information	NKG2-D type II integral membrane protein
UniProt Protein Name	NKG2-D type II integral membrane protein
UniProt Gene Name	KLRK1
UniProt Synonym Gene Names	D12S2489E; NKG2D

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/polyclonal/klrk1-antibody-immunocytochemistry-immunofluorescence-western-blot-elisa/325435>