Datasheet for ABIN509568

anti-KIR2DL4/CD158d antibody

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Overview

Quantity:	0.1 mg
Target:	KIR2DL4/CD158d (KIR2DL4)
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This KIR2DL4/CD158d antibody is un-conjugated
Application:	Western Blotting (WB), Flow Cytometry (FACS), Immunoprecipitation (IP), Immunocytochemistry (ICC)

Product Details

Immunogen:	NK3.3 cells and KIR2DL4-Ig fusion protein
Clone:	MAb 33
Isotype:	IgG1 kappa
Specificity:	The mouse monoclonal antibody mAb#33 (also known as mAb 33 or 33) recognizes extracellular portion of CD158d / KIR2DL4, a 45 kDa NK cell marker. Cell surface expression and function of CD158d / KIR2DL4 depends on genotype of particular individuals.
Cross-Reactivity (Details):	Human
Purification:	Purified by protein-A affinity chromatography.
Purity:	> 95 % (by SDS-PAGE)

Target Details

Target:	KIR2DL4/CD158d (KIR2DL4)
Alternative Name:	CD158d / KIR2DL4 (KIR2DL4 Products)
Background:	Killer cell immunoglobulin like receptor, two Ig d,CD158d / KIR2DL4 is a KIR family member that shares structural features with both activating and inhibitory receptors and may mediate different functions under different circumstances. It contains cytoplasmic ITIM, suggesting inhibitory function, but also transmembrane domain similar to those of activating KIRs. It has been reported that CD158d serves as an inhibitory receptor for peripheral and uterine NK cells, but its ligation with soluble mAbs (unlike immobilized mAbs) results in activation of IFN-γ, secretion. CD158d also binds both membrane form and soluble form of its ligand HLA-G.,KIR2DL4, KIR103AS, 103AS, 15.212
Gene ID:	3805
UniProt:	Q99706

Application Details

Application Notes:	Flow cytometry: Recommended dilution: 2-6 µg/mL.
Restrictions:	For Research Use only

Handling

Concentration:	1 mg/mL
Buffer:	Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	**Do not freeze.**
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Do not freeze.

Publications

Product cited in:	Rajagopalan, Bryceson, Kuppusamy, Geraghty, van der Meer, Joosten, Long: "Activation of NK cells by an endocytosed receptor for soluble HLA-G." in: **PLoS biology**, Vol. 4, Issue 1, pp. e9, (2006) (PubMed).

Publications

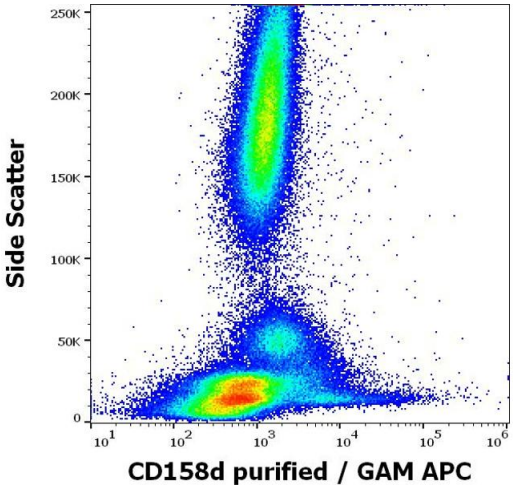
LeMaoult, Zafaranloo, Le Danff, Carosella: "HLA-G up-regulates ILT2, ILT3, ILT4, and KIR2DL4 in antigen presenting cells, NK cells, and T cells." in: **FASEB journal : official publication of the Federation of American Societies for Experimental Biology**, Vol. 19, Issue 6, pp. 662-4, (2005) (PubMed).

Yan, Fan: "Residues Met76 and Gln79 in HLA-G alpha1 domain involve in KIR2DL4 recognition." in: **Cell research**, Vol. 15, Issue 3, pp. 176-82, (2005) (PubMed).

Goodridge, Witt, Christiansen, Warren: "KIR2DL4 (CD158d) genotype influences expression and function in NK cells." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 171, Issue 4, pp. 1768-74, (2003) (PubMed).

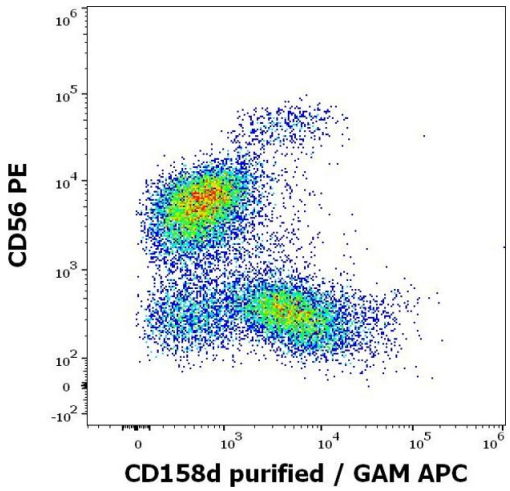
Rajagopalan, Fu, Long: "Cutting edge: induction of IFN-gamma production but not cytotoxicity by the killer cell Ig-like receptor KIR2DL4 (CD158d) in resting NK cells." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 167, Issue 4, pp. 1877-81, (2001) (PubMed).

Images



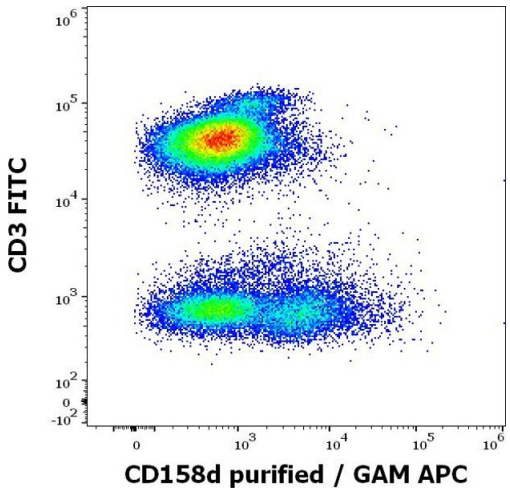
Flow Cytometry

Image 1. Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD158d (mAb#33) purified antibody (concentration in sample 6 µg/mL, GAM APC).



Flow Cytometry

Image 2. Flow cytometry multicolor surface staining pattern of human CD3 negative lymphocytes using anti-human CD158d (mAb#33) purified antibody (concentration in sample 6 µg/mL, GAM APC) and anti-human CD56 (LT56) PE antibody (10 µL reagent / 100 µL of peripheral whole blood).



Flow Cytometry

Image 3. Flow cytometry multicolor surface staining pattern of human lymphocytes using anti-human CD158d (mAb#33) purified antibody (concentration in sample 6 µg/mL, GAM APC) and anti-human CD3 (UCHT1) FITC antibody (20 µL reagent / 100 µL of peripheral whole blood).

Please check the product details page for more images. Overall 4 images are available for ABIN509568.