30-1427: Anti-CD158d / KIR2DL4 Monoclonal Antibody (Clone:mAb#33)

Clonality :	Monoclonal
Clone Name :	mAb#33
Application :	FACS
Reactivity :	Human
Gene :	KIR2DL4
Gene ID :	3805
Uniprot ID :	Q99706
Format :	Purified
Alternative Name :	KIR2DL4,CD158D,KIR103AS
Isotype :	Mouse IgG1
Immunogen Information :	NK3.3 cells and KIR2DL4-Ig fusion protein

Description

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-gamma secretion. CD158d also binds both membrane form and soluble form of its ligand HLA-G.

Product Info

Amount :	0.1 mg
Purification :	Purified by protein-A affinity chromatography
Storage condition :	Store at 2-8°C. Do not freeze.

Application Note

Flow Cytometry *Recommended dilution:*1 µg/ml
Immunoprecipitation Western Blotting Immunocytochemistry Functional Application Cytokine secretion studies
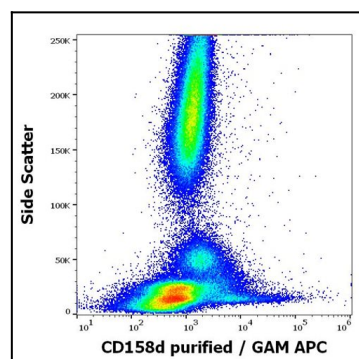

Figure 1: Flow cytometry multicolor surface staining of human lymphocytes using anti-human CD158d (mAb#33) purified antibody and surface anti-human CD56 (LT56) PE antibody

For Research Use Only. Not for use in diagnostic/therapeutics procedures.
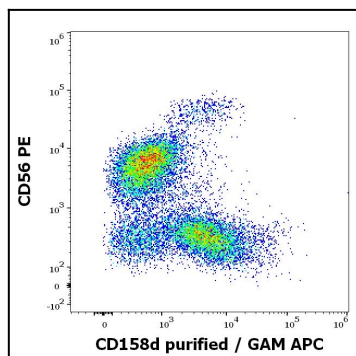
Figure 2: Flow cytometry multicolor surface staining pattern of human CD3 negative lymphocytes using anti-human CD158d (mAb#33) purified antibody (concentration in sample 6 μg/ml, GAM APC) and anti-human CD56 (LT56) PE antibody
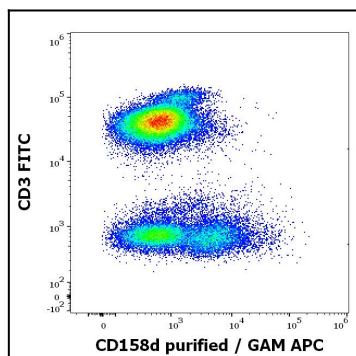

Figure 3: Flow cytometry multicolor surface staining pattern of human lymphocytes using anti-human CD158d (mAb#33) purified antibody (concentration in sample 6 μg/ml, GAM APC) and anti-human CD3 (UCHT1) FITC antibody
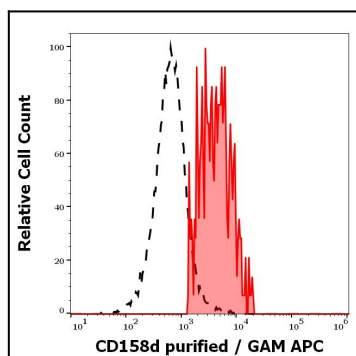

Figure 4: Separation of human CD158d positive CD56 positive CD3 negative NK cells (red-filled) from T cells (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD158d (mAb#33) purified antibody