

Anti-Hu CD158f Purified KIR2DL5A Monoclonal Antibody

Catalog Number: M12423

About KIR2DL5A

CD158f, also known as KIR2DL5, is a polymorphic 60 kDa transmembrane glycoprotein with two Ig-like extracellular domains by which it recognize HLA class I molecules. Its long intracellular domain contains immunoreceptor tyrosine-based inhibitory motifs (ITIMs) that upon extracellular ligand-mediated phosphorylation serve as docking sites for inhibitory phosphatases, which results in blocking natural cytotoxicity as well as antibody-dependent cytotoxicity of the particular NK cell, and its adhesion toward target cells. Together with other killer inhibitory receptors CD158f is important for immunological tolerance to discriminate between normal and abnormal cells. Besides NK cells it is expressed on a small population of cytotoxic T cells. Expression of CD158f alleles is highly variable in the population.

Overview

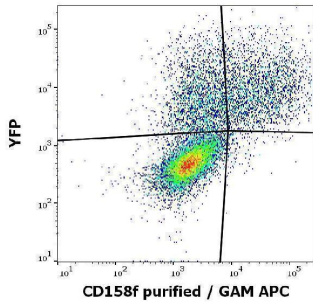
Product Name	Anti-Hu CD158f Purified KIR2DL5A Monoclonal Antibody
Reactive Species	Human
Description	Boster Bio Anti-Hu CD158f Purified KIR2DL5A Monoclonal Antibody (Catalog# M12423). Tested in Flow Cytometry, ICC application(s). This antibody reacts with Human.
Application	Flow Cytometry, ICC
Clonality	Monoclonal UP-R1
Formulation	Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Storage Instructions	Store at 2-8°C. Do not freeze.
Host	Mouse
Uniprot ID	Q8N109

Technical Details

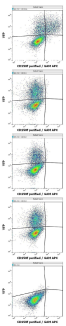
Immunogen	Human CD158f-Ig fusion protein. The mouse monoclonal antibody UP-R1 recognizes an extracellular epitope on CD158f (KIR2DL5), a 60 kDa glycoprotein serving as a HLA class I ligand, and mainly expressed on a subset of NK cells and a small population of T cells. Its expression is highly polymorphic between individuals.
Predicted Reactive Species	Primate
Cross Reactivity	As in case with other anti-CD170 antibodies, this antibody cross-reacts with Siglec-14, whose first two Ig domains are almost identical to those of CD170.
Isotype	Mouse IgG1 kappa
Form	Liquid

Concentration	1 mg/ml
Purification	Purified by protein-A affinity chromatography.
Suggested Dilutions	Flow cytometry: 1-4 ug/ml.

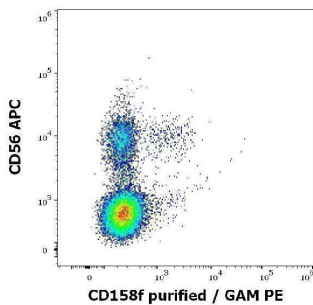
Anti-Hu CD158f Purified KIR2DL5A Monoclonal Antibody (M12423) Images



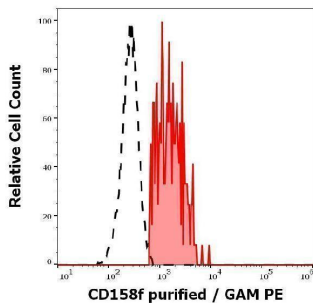
Flow cytometry surface staining pattern of KIR2DL5A (CD158f) transfected HEK-293 cells co-transfected with YFP coding plasmid using anti-human CD158f (UP-R1) purified antibody (concentration in sample 4 µg/ml, GAM APC).



Flow cytometry surface staining patterns of non-transfected HEK-293 cells and HEK-293 cells transfected with KIR-family coding plasmids co-transfected with YFP coding plasmid using anti-human CD158f (UP-R1) purified antibody (concentration in sample 4 µg/ml, GAM APC).

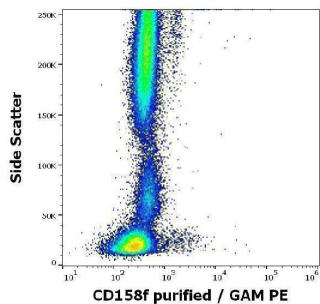


Flow cytometry multicolor surface staining pattern of human lymphocytes stained using anti-human CD56 (LT56) APC antibody (10 µl reagent / 100 µl of peripheral whole blood) and anti-human CD158f (UP-R1) purified antibody (concentration in sample 3 µg/ml) GAM PE.



Separation of human CD158f positive CD56 positive NK cells (red-filled) from CD158f negative CD56 negative lymphocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD158f (UP-R1) purified antibody (concentration in sample 3 µg/ml) GAM PE.

Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD158f (UP-R1) purified antibody (concentration in sample 3 µg/ml) GAM PE.



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