abcam

ab328590

PE/Cy7® Anti-CD158 agh (KIR2DL1/S1/S3/S5) antibody [HP-MA4]

Key facts

Isotype	IgG2b
Host species	Mouse
Conjugation	PE/Cy7®
Excitation/Emission	Ex: 565nm, Em: 778nm
Storage buffer	pH: 7.4 Preservative: 0.1% Sodium azide Constituents: PBS, 0.2% BSA
Form	Liquid
Clonality	Monoclonal
Immunogen	Human NK cell line LB2. Database link Q99706
Clone number	HP-MA4
Purification technique	Size-exclusion chromatography
Specificity	The mouse monoclonal antibody HP-MA4 recognizes an extracellular epitope of CD158 isoforms KIR2DL1 (CD158a), KIR2DS5 (CD158g), KIR2DS1 (CD158h), and KIR2DS3. It does not recognize the isoforms CD158b1,d,f,i,j.
Light chain type	kappa

Reactivity data

Flow Cyt

Tested

Species	Human
Dilution info	-
Notes	Flow cytometry: The reagent is designed for analysis of human blood cells using 4 µl reagent / 100 µl of whole blood or 10^6 cells in a suspension. The content of a vial (0.4 ml) is sufficient for 100 tests.

Target data

See full target information KIR2DL4

Function	Receptor for non-classical major histocompatibility class Ib HLA-G molecules. Recognizes HLA-G in complex with B2M/beta-2 microglobulin and a nonamer self-peptide (peptide-bound HLA-G-B2M). In decidual NK cells, binds peptide-bound HLA-G-B2M complex and triggers NK cell senescence-associated secretory phenotype as a molecular switch to promote vascular remodeling and fetal growth in early pregnancy (PubMed:16366734, PubMed:23184984, PubMed:29262349). May play a role in balancing tolerance and antiviral-immunity at maternal-fetal interface by keeping in check the effector functions of NK, CD8+ T cells and B cells (PubMed:10190900, PubMed:16366734). Upon interaction with peptide-bound HLA-G-B2M, initiates signaling from the endosomal compartment leading to downstream activation of PRKDC-XRCC5 and AKT1, and ultimately triggering NF-kappa-B-dependent pro-inflammatory response (PubMed:20179272).

Storage

Shipped at conditions	Ambient - Can Ship with Ice
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	+4°C
Storage information	Do Not Freeze

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

We do not recommend this combination. It is not covered by our product promise.

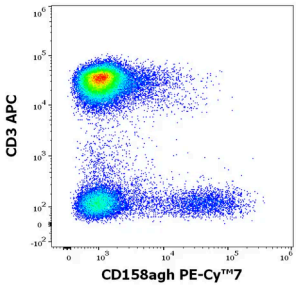
We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
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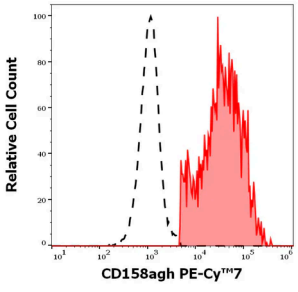
3 product images



Flow Cytometry - PE/Cy7® Anti-CD158 agh (KIR2DL1/S1/S3/S5) antibody [HP-MA4] (ab328590)

CD158 agh (KIR2DL1/S1/S3/S5) Flow Cytometry staining of human peripheral blood mononuclear cells using mouse Anti-CD158 agh (KIR2DL1/S1/S3/S5) antibody

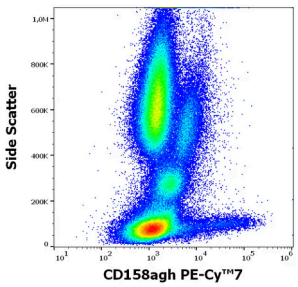
Flow cytometry multicolor surface staining pattern of human peripheral blood mononuclear cells using anti-human CD3 (UCHT1) APC antibody (10 µl reagent / 100 µl of peripheral whole blood) and anti-human CD158agh (HP-MA4) PE-Cy™7 antibody (4 µl reagent / 100 µl of peripheral whole blood).



Flow Cytometry - PE/Cy7® Anti-CD158 agh (KIR2DL1/S1/S3/S5) antibody [HP-MA4] (ab328590)

CD158 agh (KIR2DL1/S1/S3/S5) Flow Cytometry staining of human peripheral whole blood using mouse Anti-CD158 agh (KIR2DL1/S1/S3/S5) antibody

Separation of human CD158agh positive CD3 negative lymphocytes (red-filled) from CD158agh negative CD3 positive lymphocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD158agh (HP-MA4) PE-Cy™7 antibody (4 µl reagent / 100 µl of peripheral whole blood).



Flow Cytometry - PE/Cy7® Anti-CD158 agh (KIR2DL1/S1/S3/S5) antibody [HP-MA4] (ab328590)

CD158 agh (KIR2DL1/S1/S3/S5) Flow Cytometry staining of human peripheral whole blood using mouse Anti-CD158 agh (KIR2DL1/S1/S3/S5) antibody

Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD158agh (HP-MA4) PE-Cy™7 antibody (4 µl reagent / 100 µl of peripheral whole blood).

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