abcam

**ab328598**

# PE/Cy7® Anti-CD158d antibody [mAb 33]

## Key facts

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|---|---|
| **Isotype** | IgG1 |
| **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** | NK3.3 cells and KIR2DL4-Ig fusion protein. Database link Q99706 |
| **Clone number** | mAb 33 |
| **Purification technique** | Size-exclusion chromatography |
| **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. |
| **Light chain type** | kappa |

## Reactivity data

## Flow Cyt

### Tested

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|---|---|
| **Species** | Human |

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| **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

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| **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

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| **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.

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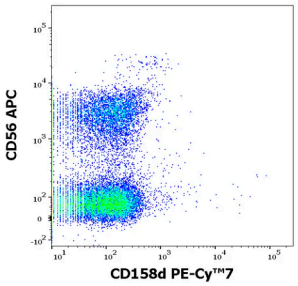
We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

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:
Terms & Conditions.

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## 3 product images

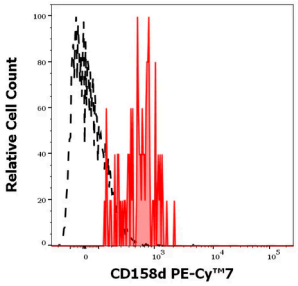



### Flow Cytometry - PE/Cy7® Anti-CD158d antibody [mAb 33] (ab328598)

CD158d Flow Cytometry staining of human lymphocytes using mouse Anti-CD158d antibody

Flow cytometry multicolor surface staining of human lymphocytes stained using anti-human CD158d (mAb#33) PE-Cy™7 antibody (4 µl reagent / 100 µl of peripheral whole blood) and anti-human CD56 (LT56) APC antibody (10 µl reagent / 100 µl of peripheral whole blood).

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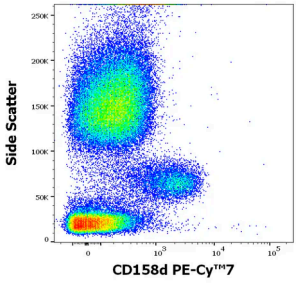



### Flow Cytometry - PE/Cy7® Anti-CD158d antibody [mAb 33] (ab328598)

CD158d Flow Cytometry staining of human peripheral whole blood using mouse Anti-CD158d antibody

Separation of human CD158d positive CD56 positive NK cells (red-filled) from CD158d negative CD56 negative lymphocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD158d (mAb#33) PE-Cy™7 antibody (4 µl reagent / 100 µl of peripheral whole blood).

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### Flow Cytometry - PE/Cy7® Anti-CD158d antibody [mAb 33] (ab328598)

CD158d Flow Cytometry staining of human peripheral whole blood using mouse Anti-CD158d antibody

Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD158d (mAb#33) PE-Cy™7 antibody (4 µl reagent / 100 µl of peripheral whole blood).

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