

CD158a/h/g Monoclonal Antibody (HP-MA4), PE-Cyanine7, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human
Host/Isotype	Mouse / IgG2b, kappa
Recommended Isotype Control	Mouse IgG2b kappa Isotype Control (eBMG2b), PE-Cyanine7, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	HP-MA4
Conjugate	PE-Cyanine7
Excitation/Emission Max	569/780 nm
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.2% BSA
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_10854424

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.25 µg)/test	-
Functional Assay (FN)	-	1 Publication

Product Specific Information

Description: The monoclonal antibody HP-MA4 recognizes several CD158 proteins, also known as KIR2D, specifically KIR2DL1 (CD158a), KIR2DS1 (CD158h), KIR2DS3, and KIR2DS5 (CD158g). It does not recognize KIR2DL2 (CD158b1), KIR2DS2 (CD158j), KIR2DL4 (CD158d) or KIR2DS4 (CD158i) and crossreactivity to KIR2DL3 (CD158b2) and KIR2DL5 (CD158f) are unknown. CD158 proteins are members of the killer cell immunoglobulin-like receptors (KIR) family of transmembrane glycoproteins that are expressed on NK cells and a subset of T cells. Each KIR has an isoform with either a short (S) or long (L) cytoplasmic domain which transduces either an activating or inhibitory signal, respectively. The crossreactivity of the HP-MA4 antibody to KIR2DS3 and KIR2DS5 was published in 2013.

Applications Reported: This HP-MA4 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This HP-MA4 antibody has been pre-titrated and tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at 5 µL (0.25 µg) per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test.

Light sensitivity: This tandem dye is sensitive photo-induced oxidation. Please protect this vial and stained samples from light.

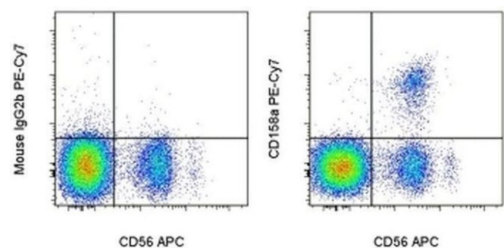
Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-822-49) (100 µL cell sample + 100 µL IC Fixation Buffer) or 1-step Fix/Lyse Solution (Product # 00-5333-54) for up to 3 days in the dark at 4°C with minimal impact on brightness and

FRET efficiency/compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

Excitation: 488-561 nm; Emission: 775 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD158a/h/g Monoclonal Antibody (HP-MA4), PE-Cyanine7, eBioscience™



CD158a/h/g Antibody (25-1589-42) in Flow
Staining of normal human peripheral blood cells with Anti-Human CD56 (NCAM) APC (Product # 17-0567-42) and Mouse IgG2b K Isotype Control PE-Cyanine7 (Product # 25-4732-81) (left) or Anti-Human CD158a/h/g PE-Cyanine7 (right). Cells in the lymphocyte gate were used for analysis.

1 Reference

Functional Assay (1)

Genes and immunity	Year
A comprehensive analysis of the binding of anti-KIR antibodies to activating KIRs.	2014
Authors: Czaja K,Borer AS,Schmied L,Terszowski G,Stern M,Gonzalez A	

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