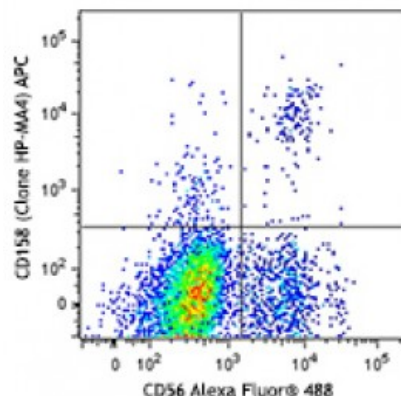


APC anti-human CD158 (KIR2DL1/S1/S3/S5)

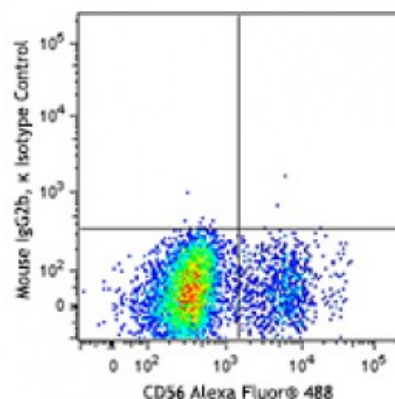
Catalog # / Size:	2297550 / 100 tests 2297545 / 25 tests
Clone:	HP-MA4
Isotype:	Mouse IgG2b, κ
Immunogen:	Human NK cell clone LB2
Reactivity:	Human
Preparation:	The antibody was purified by affinity chromatography and conjugated with APC under optimal conditions. The solution is free of unconjugated APC and unconjugated antibody.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).
Concentration:	Lot-specific



Human peripheral blood lymphocytes were stained with CD56 Alexa Fluor® 488 and CD158 (clone HP-MA4) APC (top) or mouse IgG2b, κ APC isotype control (bottom).

Applications:

Applications:	Flow Cytometry
Recommended Usage:	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is 5 microL per million cells or 5 microL per 100 microL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.
Application Notes:	The HP-MA4 clone reacts with KIR2DL1 (CD158a), KIR2DS1 (CD158h), KIR2DS3, and KIR2DS5 (CD158g). Additional reported applications include: inhibits NK cell mediated cytotoxicity and immunoprecipitation.



Application References:	1. De Miguel M and M. Lopez-Botet. 2002. <i>Inmunologia</i> . 21:187 2. Goodridge JP, <i>et al.</i> 2013. <i>J. Immunol.</i> 191:3553. PubMed
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Description: CD158 molecules, also known as KIRs (killer cell immunoglobulin-like receptors), are a family of transmembrane proteins with either two (KIR2D) or three (KIR3D) Ig-like extracellular domains. Some KIRs with long cytoplasmic domains contain ITIMs and possess inhibitory functions and others with short cytoplasmic region lack ITIM and have activation functions. 14 polymorphic KIR genes have been reported in humans. CD158 is mainly expressed on a subset of NK cells and a small population of CD8⁺ T cells. HLA-C is the ligand of CD158a/h.

Antigen 1. Zola H, *et al.* eds. 2007. *Leukocyte and Stromal Cell Molecules: The CD Markers*.
References: Wiley-Liss A John Wiley & Sons Inc, Publication