SONY

Product Data Sheet

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

Catalog # / Size: 2297525 / 25 tests
2297530 / 100 tests

Clone: HP-MA4

Isotype: Mouse IgG2b, κ

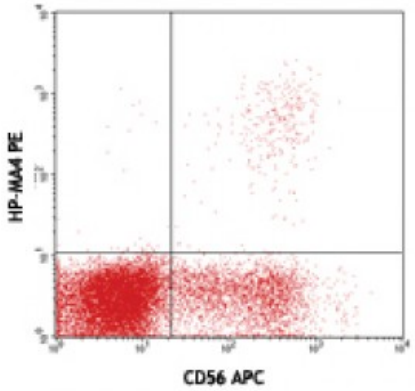
Immunogen: Human NK cell clone LB2

Reactivity: Human

Preparation: The antibody was purified by affinity chromatography, and conjugated with PE under optimal conditions. The solution is free of unconjugated PE 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 stained with HP-MA4 PE and HCD56 (CD56) APC

Applications:

Applications: Flow Cytometry

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. **Test size products are transitioning from 20 microL to 5 microL per test**. Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100 microL staining volume or per 100 microL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

Application Notes: mAb HP-MA4 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. *Inmunologia.* 21:187
2. Goodridge JP, *et al.* 2013. *J. Immunol.* 191:3553. PubMed

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 posses 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 References:

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

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