

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

Catalog # / Size: 2297510 / 100 µg
Clone: HP-MA4
Isotype: Mouse IgG2b, κ
Immunogen: Human NK cell clone LB2
Reactivity: Human
Preparation: The antibody was purified by affinity chromatography.
Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Concentration: 0.5

Applications:

Applications: Other

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 ≤ 1.0 microg per 10⁶ cells in 100 microL volume. 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 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 References: 1. Zola H, *et al.* eds. 2007. *Leukocyte and Stromal Cell Molecules: The CD Markers*. Wiley-Liss A John Wiley & Sons Inc, Publication