

# Product Data Sheet

## Purified anti-human CD158a/h (KIR2DL1/S1)

**Catalog # / Size:** 339501 / 25 µg  
339502 / 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 mg/ml

**Storage:** The antibody solution should be stored undiluted at 4°C.

## Applications:

**Applications:** FC - *Quality tested*  
IP - *Reported in the literature*

**Recommended Usage:** Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For immunofluorescent staining, the suggested use of this reagent is ≤ 1.0 µg per 10<sup>6</sup> cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

**Application Notes:** Additional reported applications include: inhibits NK cell mediated cytotoxicity and immunoprecipitation.

**Application References:** 1. De Miguel M and M. Lopez-Botet. 2002. *Immunologia*. 21:187

**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. The mAb HP-MA4 reacts with KIR2DL1 (CD158a) and KIR2DS1 (CD158h). 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

### Related Products:

**Product**  
Purified Mouse IgG2b, κ Isotype Ctrl  
Cell Staining Buffer  
RBC Lysis Buffer (10X)

**Clone**  
MG2b-57

**Application**  
FC, ICC, ICFC, IF, IHC, IP, WB  
FC, ICC, ICFC  
FC, ICFC



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