

TECHNICAL DATA SHEET

CyFlow™ CD158a/g/h Purified Anti-Hu; Clone HP-MA4



CD698951

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

Specifications

Antigen	CD158a/g/h
Alternative Names	_
Clone	HP-MA4
Clonality	monoclonal
Format	Purified
Host / Isotype	Mouse / IgG2b
Species Reactivity	Human
Negative Species Reactivity	_
Quantity [Concentration]	0.1 mg [1 mg/ml]
Immunogen	Human NK cell line LB2

Specificity

The mouse monoclonal antibody HP-MA4 recognizes CD158 isoforms KIR2DL1 (CD158a), KIR2DS5 (CD158g), KIR2DS1 (CD158h), and KIRDS3. It does not recognize the isoforms CD158b1,d,f,i,j.

Contact Information:

Sysmex Partec GmbH • Am Flugplatz 13 • 02828 Görlitz • Germany Tel +49 3581 8746 0 • Fax +49 3581 8746 70 • E-mail: <u>info@sysmex-partec.com</u>



Application

Based on published sources, this antibody is suitable for the following applications:

- Flow cytometry
- Immunoprecipitation

Storage Buffer

The reagent is provided in phosphate buffered saline (PBS) solution, pH ≈7.4, containing 0.1% (w/v) sodium azide.

Storage and Stability

Storage	Avoid prolonged exposure to light. Store in the dark at 2-8°C. Do not freeze.	
Stability	Do not use after expiration date stamped on vial label.	

Background Information

Killer cell immunoglobulin-like receptors (KIRs) are polymorphic transmembrane glycoproteins expressed by natural killer cells and subsets of T cells. They are classified by the number of extracellular immunoglobulin domains (2D or 3D) and by whether they have a long (L) or short (S) cytoplasmic domain. KIR proteins with the long cytoplasmic domain (such as CD158a / KIR2DL1) transduce inhibitory signals upon ligand binding via an immune tyrosine-based inhibitory motif (ITIM), while KIR proteins with the short cytoplasmic domain (such as CD158g / KIR2DS5, CD158h / KIR2DS1, or KIR2DS3) lack the ITIM motif and instead associate with the TYRO protein tyrosine kinase binding protein to transduce activating signals. The ligands for CD158 isoforms are subsets of MHC class I molecules.

References

Wiernik A, Foley B, Zhang B, Verneris MR, Warlick E, Gleason MK, Ross JA, Luo X, Weisdorf DJ, Walcheck B, Vallera DA, Miller JS: Targeting natural killer cells to acute myeloid leukemia in vitro with a CD16 x 33 bispecific killer cell engager and ADAM17 inhibition. Clin Cancer Res. 2013 Jul 15; 19(14):3844-55. < PMID: 23690482 >

The Safety Data Sheet for this product is available at www.sysmex-partec.com/services.