Technical Data Sheet

FITC Mouse Anti-Human CD158a

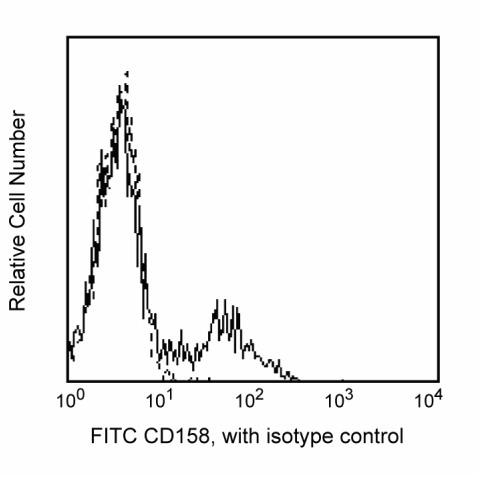
Product Information

Material Number:	**556062**
Size:	100 tests
Vol. per Test:	20 µl
Clone:	HP-3E4
Isotype:	Mouse IgM, κ
Reactivity:	QC Testing: Human
Workshop:	VI NK14
Storage Buffer:	Aqueous buffered solution containing BSA and ≤0.09% sodium azide.

Description

Reacts wth a 58 kDa membrane glycoprotein, member of the killer-inhibitory receptor (KIR). The KIR family family consists of transmembrane glycoproteins of the Ig superfamily expressed on <1-8% of NK cells and a subset of T cells which are involved in recognition of MHC class I molecules on target cells and inhibit cytotoxicity. CD158a is an antigen which recognizes HLA-C molecules (-Cw*0401 and -Cw*1503). This antibody is suitable for staining acetone-fixed, frozen tissue sections. It was reported that this clone also cross-reacted with NKAT8 (CD158i) tranfectant cells.

This antibody is routinely tested by flow cytometric analysis. Other applications were tested at BD Biosciences Pharmingen during antibody development only or reported in the literature.



Profile of CD158 expressed on peripheral blood lymphocytes analyzed on a FACScan (BDIS, San Jose, CA)

Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.
The antibody was conjugated with FITC under optimum conditions, and unreacted FITC was removed.
Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze.

Application Notes

Application

Flow cytometry	Routinely Tested

Suggested Companion Products

Catalog Number	Name	Size	Clone
555583	FITC Mouse IgM, κ Isotype Control	100 tests	G155-228

BD Biosciences

bdbiosciences.com

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Product Notices

1. This reagent has been pre-diluted for use at the recommended Volume per Test. We typically use 1 × 10e6 cells in a 100-µl experimental sample (a test).
2. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
3. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.
4. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
5. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

References

Kishimoto T, von dem Borne AEG, Goyert SM,et al., ed. *Leucocyte Typing VI: White Cell Differentiation Antigens.* London: Garland Publishing; 1997. (Clone-specific: Flow cytometry, Immunohistochemistry)

Melero I, Salmeron A, Balboa MA, Aramburu J, Lopez-Botet M. Tyrosine kinase-dependent activation of human NK cell functions upon stimulation through a 58-kDa surface antigen selectively expressed on discrete subsets of NK cells and T lymphocytes. *J Immunol.* 1994; 152(4):1662-1673.(Clone-specific: Flow cytometry, Immunohistochemistry)