Technical Data Sheet

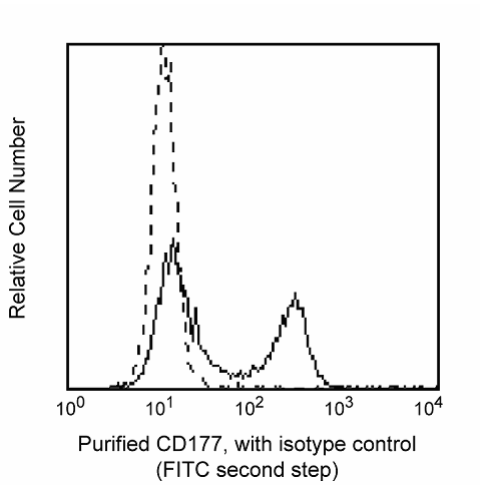
Purified Mouse Anti-Human CD177

Product Information

Material Number:	**551899**
Alternate Name:	NB1
Size:	0.1 mg
Concentration:	0.5 mg/ml
Clone:	MEM-166
Isotype:	Mouse IgG1, κ
Reactivity:	QC Testing: Human
Workshop:	VII 70510
Storage Buffer:	Aqueous buffered solution containing ≤0.09% sodium azide.

Description

Reacts with the GPI-anchored plasma membrane glycoprotein (56-64 kDa) neutrophil-specific antigen NB1. CD177 is expressed on neutrophils, neutrophillic metamyelocytes and myelocytes from 89 to 97% of healthy individuals. Its expression is upregulated on granulocytes stimulated with the chemotactic peptide f-met-leu-phe (fMLP). The function of CD177 has not been fully elucidated at this time; however, some findings suggest its possible role as receptor molecule.



Profile of peripheral blood granulocytes analyzed by flow cytometry. *Second step staining with Cat. No. 555988.*

Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.
Store undiluted at 4° C.

Application Notes

Application

Flow cytometry	Routinely Tested

Suggested Companion Products

Catalog Number	Name	Size	Clone
555746	Purified Mouse IgG1, κ Isotype Control	0.1 mg	MOPC-21
555988	FITC Goat Anti-Mouse IgG/IgM	0.5 mg	Polyclonal

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Product Notices

1. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.
2. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
3. 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.

References

Clement LT, Lehmeyer JE, Gartland GL.. Identification of neutrophil subpopulations with monoclonal antibodies. *Blood.* 1983 February; 61(2):326-332.(Biology)

Matsuo K, Lin A, Procter JL, Clement L, Stroncek D. Variations in the expression of granulocyte antigen NB1. *Transfusion.* 2000 June; 40(6):654-662.(Biology)

Stroncek DF, Shankar R, Litz C, Clement L. The expression of the NB1 antigen on myeloid precursors and neutrophils from children and umbilical cords. *Transfus Med.* 1998 June; 8(2):119-123.(Biology)

Stroncek DF, Shankar RA, Noren PA, Herr GP, Clement LT. Analysis of the expression of NB1 antigen using two monoclonal antibodies. *Transfusion.* 1996 February; 36(2):168-174.(Biology)