

Technical Data Sheet

Purified Mouse Anti-Human CD164

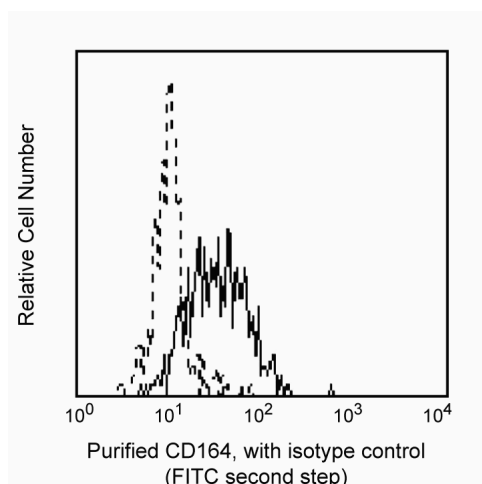
Product Information

Material Number:	551296
Size:	0.1 mg
Concentration:	0.5 mg/ml
Clone:	N6B6
Isotype:	Mouse IgG2a, κ
Reactivity:	QC Testing: Human
Storage Buffer:	Aqueous buffered solution containing $\leq 0.09\%$ sodium azide.

Description

Reacts with an 80-90 kDa, mucin-like molecule present on CD34+ cells during the early stages of B cell, erythroid cell and myelomonocytic cell development. It is also expressed on epithelial cells, peripheral blood monocytes and weakly on lymphocytes. Mucin-like molecules are a new family of glycoproteins present in tissues of the hematopoietic system. They are highly glycosylated polypeptides, containing predominantly O-linked carbohydrate side chains. Reports suggest that CD164 may play a role in hematopoiesis by facilitating the adhesion of CD34+ cells to bone marrow stroma.

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



Profile of peripheral blood monocytes 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
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Suggested Companion Products

Catalog Number	Name	Size	Clone
555988	FITC Goat Anti-Mouse IgG/IgM	0.5 mg	Polyclonal
555571	Purified Mouse IgG2a, κ Isotype Control	0.1 mg	G155-178

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Product Notices

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

Watt SM, Bühring HJ, Rappold I. CD164, a novel sialomucin on CD34(+) and erythroid subsets, is located on human chromosome 6q21. *Blood*. 1998; 92(3):849-866.(Biology)

Zannettino AC, Bühring HJ, Niutta S, Watt SM, Benton MA, Simmons PJ. The sialomucin CD164 (MGC-24v) is an adhesive glycoprotein expressed by human hematopoietic progenitors and bone marrow stromal cells that serves as a potent negative regulator of hematopoiesis. *Blood*. 1998; 92(8):2613-2628.(Biology)