Technical Data Sheet

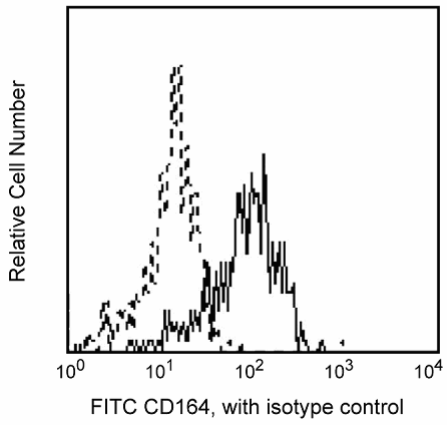
FITC Mouse Anti-Human CD164

Product Information

Material Number:	**551297**
Size:	100 tests
Vol. per Test:	20 µl
Clone:	N6B6
Isotype:	Mouse IgG2a, κ
Reactivity:	QC Testing: Human
Storage Buffer:	Aqueous buffered solution containing BSA and ≤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.



Profile of peripheral blood monocytes analyzed by flow cytometry

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
555573	FITC Mouse IgG2a, κ Isotype Control	100 tests	G155-178

Product Notices

1. This reagent has been pre-diluted for use at the recommended Volume per Test. We typically use 1 X 10e6 cells in a 100-µl experimental sample (a test).
2. Since applications vary, each investigator should titrate the reagent to obtain optimal results.

BD Biosciences

www.bdbiosciences.com

United States	Canada	Europe	Japan	Asia Pacific	Latin America/Caribbean
877.232.8995	888.259.0187	32.53.720.550	0120.8555.90	65.6861.0633	55.11.5185.9995

For country-specific contact information, visit **www.bdbiosciences.com/how_to_order/**

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

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)