Technical Data Sheet

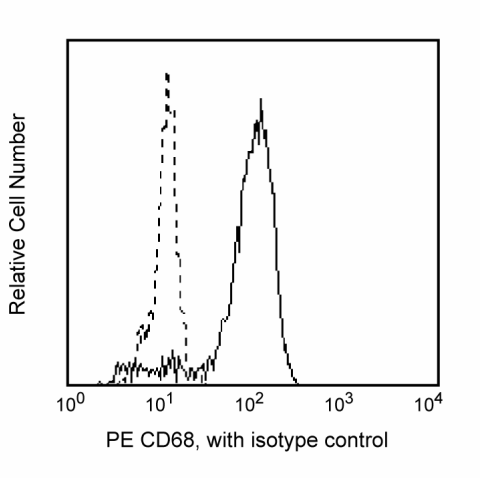
PE Mouse Anti-Human CD68 Set

Product Information

Material Number:	**556078**
Size:	100 tests
Reactivity:	QC Testing: Human
Component:	**51-36805X**
Description:	PE Mouse Anti-Human CD68
Size:	100 tests (1 ea)
Clone Name:	Y1/82A
Isotype:	Mouse IgG2b, κ
Storage Buffer:	Aqueous buffered solution containing BSA and ≤0.09% sodium azide.
Component:	**51-35425X**
Description:	PE Mouse IgG2b κ Isotype Control
Size:	100 tests (1 ea)
Clone Name:	27-35
Isotype:	Mouse (C.SW) IgG2b, κ
Storage Buffer:	Aqueous buffered solution containing BSA and ≤0.09% sodium azide.

Description

Reacts with a 110 kDa-type I-transmembrane glycoprotein expressed in cytoplasmic granules of monocytes/macrophages, dendritic cells, granulocytes, myeloid progenitor cells and, reportedly, a subset of CD34+ hemopoietic bone marrow progenitor cells. CD68 belongs to the sialomucin family and its function has not been fully elucidated. This antibody could be useful in studies of myeloid cell development.



Profile of CD68-PE Set expressed on permeabilized 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 R-PE under optimum conditions, and unconjugated antibody and free PE were removed.
Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze.

Application Notes

Application

Intracellular staining (flow cytometry)	Routinely Tested

Recommended Assay Procedure:

We recommend the use of Cytofix/Cytoperm (Cat. No. 554714) for the cells fixation and permeabilization, and then do the intracellular staining.

BD Biosciences

bdbiosciences.com

United States	Canada	Europe	Japan	Asia Pacific	Latin America/Caribbean
877.232.8995	888.268.5430	32.53.720.550	0120.8555.90	65.6861.0633	0800.771.7157

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

Product Notices

1. This antibody has been optimized and preassayed with its matched isotype control to be used at the recommended volume of 20 ul/test. Titration of the reagents or substituting with other (non-matched) isotype control is NOT recommended.
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

Barclay NA, Brown MH, Birkeland ML, et al, ed. *The Leukocyte Antigen FactsBook.* San Diego, CA: Academic Press; 1997. (Biology)

Davey FR, Cordell JL, Erber WN, Pulford KA, Gatter KC, Mason DY. Monoclonal antibody (Y1/82A) with specificity towards peripheral blood monocytes and tissue macrophages. *J Clin Pathol.* 1988; 41(7):753-758. (Biology)

Davey FR, Erber WN, Gatter KC, Mason DY. The use of monoclonal antibody Y1/82A in the identification of acute myeloblastic and monocytic leukemias. *Am J Clin Pathol.* 1988; 89(1):76-80. (Biology)

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