

Technical Data Sheet

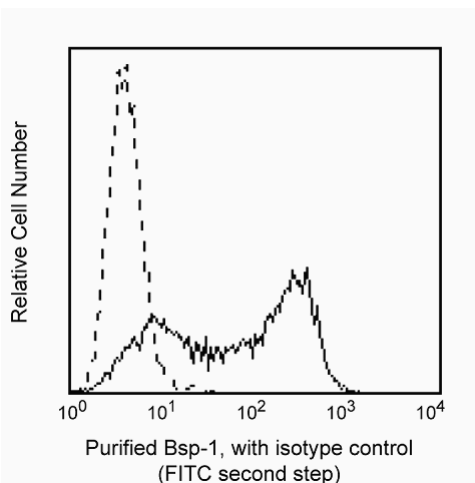
Purified Mouse Anti-Human Basophils

Product Information

Material Number:	552754
Size:	0.1 mg
Concentration:	0.5 mg/ml
Clone:	Bsp-1
Isotype:	Mouse IgM, κ
Reactivity:	QC Testing: Human
Storage Buffer:	Aqueous buffered solution containing $\leq 0.09\%$ sodium azide.

Description

Bsp-1 reacts with a 45 kDa surface antigen on the human erythroleukemic (HEL) cell line, the KU812 basophilic cell line, and peripheral blood basophils, but not on neutrophils or eosinophils. Bsp-1+ basophils also express CD11 and CD13, but lack lymphoid and other granulocytic/monocytic cell surface antigens. However, they express CD45 and HLA-ABC antigens. In peripheral blood, Bsp-1 reacts with a subset of the CD123+/HLA-DR- population. Bsp-1 is a useful tool in the study of basophil function and differentiation.



Profile of anti-Basophil (Bsp-1) on HEL cells 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
555581	Purified Mouse IgM, κ Isotype Control	0.1 mg	G155-228
555988	FITC Goat Anti-Mouse IgG/IgM	0.5 mg	Polyclonal

Product Notices

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

Bodger MP, Morris CM, Kennedy MA, Bowen JA, Hilton JM, Fitzgerald PH. Basophils (Bsp-1+) derive from the leukemic clone in human myeloid leukemias involving the chromosome breakpoint 9q34. *Blood*. 1989; 73(3):777-781.(Biology)

Bodger MP, Mounsey GL, Nelson J, Fitzgerald PH. A monoclonal antibody reacting with human basophils. *Blood*. 1987; 69(5):1414-1418.(Biology)

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