Technical Data Sheet

FITC Mouse Anti-Rat Marginal Zone B Cells

Product Information

Material Number:	**559963**
Size:	0.5 mg
Concentration:	0.5 mg/ml
Clone:	HIS57
Immunogen:	Rat splenic B cells
Isotype:	Mouse IgG1, κ
Reactivity:	QC Testing: Rat
Storage Buffer:	Aqueous buffered solution containing ≤0.09% sodium azide.

Description

The HIS57 antibody reacts with an unknown antigen that is highly expressed by most marginal zone B (MZ-B) cells in the spleen. In contrast, this antigen is weakly expressed, or not expressed at all, by other B-cell subpopulations. Rat MZ-B cells express low levels of CD45R (mAb HIS24) and sIgD and high levels of sIgM. The HIS57 mAb does not stain granulocytes and thymocytes. Immunohistochemical staining of normal spleen sections with HIS57 mAb produced a positive signal in the marginal zone and, to a lesser extent, in B-cell follicles. This marker can be used in combination with CD45R, sIgD, and sIgM t0 identify MZ-B cells in the rat.

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
550616	FITC Mouse IgG1, κ Isotype Control	0.25 mg	MOPC-31C

Product Notices

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

Dammers PM, de Boer NK, Deenen GJ, Nieuwenhuis P, Kroese FG. The origin of marginal zone B cells in the rat. *Eur J Immunol.* 1999; 29(5):1522-1531. (Biology)
Kroese FG, Butcher EC, Lalor PA, Stall AM, Herzenberg LA. The rat B cell system: the anatomical localization of flow cytometry-defined B cell subpopulations. *Eur J Immunol.* 1990; 20(7):1527-1534.(Biology)
Kroese FG, Wubbena AS, Opstelten D, et al. B lymphocyte differentiation in the rat: production and characterization of monoclonal antibodies to B lineage-associated antigens. *Eur J Immunol.* 1987; 17(7):921-928.(Biology)

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