

Technical Data Sheet

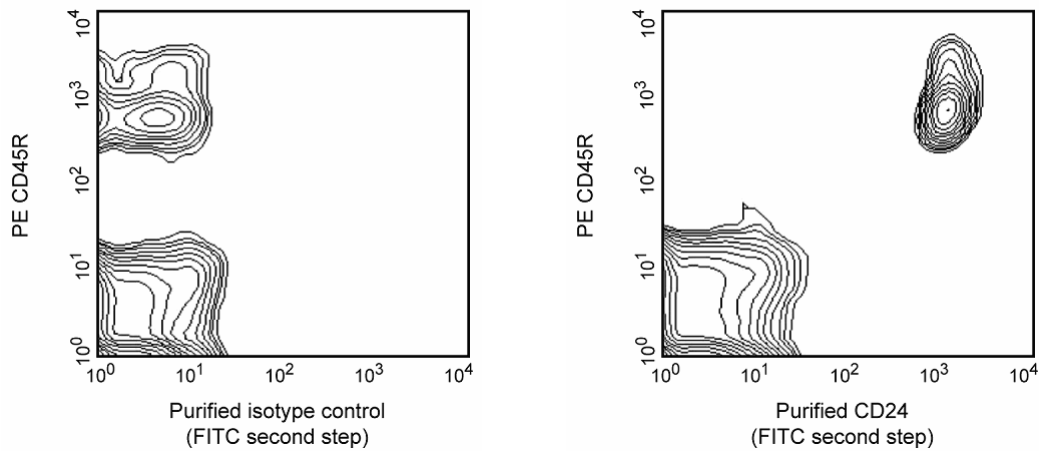
Purified Mouse Anti-Rat CD24

Product Information

Material Number:	551133
Alternate Name:	Heat-Stable Antigen
Size:	0.1 mg
Concentration:	0.5 mg/ml
Clone:	HIS50
Immunogen:	Rat bone marrow cells
Isotype:	Mouse IgM, κ
Reactivity:	QC Testing: Rat
Storage Buffer:	Aqueous buffered solution containing ≤0.09% sodium azide.

Description

The HIS50 antibody reacts with CD24 (Heat-Stable Antigen, HSA or HsAg), a variably glycosylated GPI-anchored membrane protein. In the rat, *Cd24* mRNA is found in a variety of epithelia, neural tissue, lymph node germinal centers, and thymus. mAb HIS50 detects CD24 on most B-lineage cells in the bone marrow, on most sIgM[high] B lymphocytes in the blood and spleen, and on marginal-zone B cells in the spleen and lymph node. Variable levels of CD24 are detected on sIgM[dull] and follicular B lymphocytes. mAb HIS50 does not detect CD24 on rat thymocytes nor peripheral T lymphocytes, NK cells, or granulocytes. The HIS50 antibody cross-reacts with intracellular antigen(s) in human lymphocytes.



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
Immunohistochemistry-frozen	Reported
Western blot	Reported
Immunofluorescence	Reported

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Suggested Companion Products

Catalog Number	Name	Size	Clone
554881	PE Mouse Anti-Rat CD45R	0.2 mg	HIS24
553472	Purified Mouse IgM, κ Isotype Control	0.5 mg	G155-228
553437	FITC Rat Anti-Mouse IgM	0.5 mg	II/41

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

Akashi T, Shirasawa T, Hirokawa K.. Gene expression of CD24 core polypeptide molecule in normal rat tissues and human tumor cell lines.. *Virchows Arch.* 1994; 425(4):399-406.(Biology: Bioassay)

Hermans MH, Deenen GJ, De Boer N, Bo W, Kroese FG, Opstelten D. Expression of HIS50 Ag: a rat homologue of mouse heat-stable antigen and human CD24 on B lymphoid cells in the rat. *Immunology.* 1997; 90(1):14-22.(Immunogen: Immunofluorescence, Immunohistochemistry)

Pearce EI, Ammerlaan WA, Opstelten D.. Characterization of rat HSA/CD24 protein bearing the B lineage-restricted epitope recognized by MAb HIS50.. *Hybridoma.* 1996 February; 15(1):33-42.(Clone-specific: Western blot)