

Technical Data Sheet

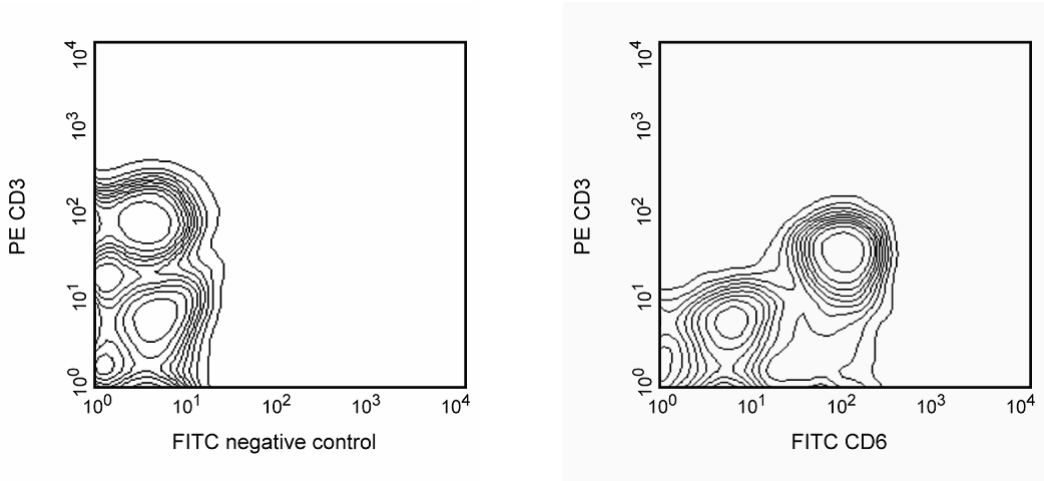
FITC Mouse Anti-Rat CD6

Product Information

Material Number:	554904
Alternate Name:	OX-52 Antigen, Pan-T Cells
Size:	0.5 mg
Concentration:	0.5 mg/ml
Clone:	OX-52
Immunogen:	PVG-RT1c rat thoracic-duct leukocytes and splenocytes
Isotype:	Mouse (BALB/c) IgG2a, κ
Reactivity:	QC Testing: Rat
Storage Buffer:	Aqueous buffered solution containing ≤0.09% sodium azide.

Description

The OX-52 antibody reacts with CD6, a 95-120-kDa antigen on T lymphocytes and thymocytes expressing αβ and γδ Tcell receptors. Rat NK cells express low levels of CD6 and are CD8a+, CD8b-, CD5-, and CD3-. In immunoprecipitation experiments, CD6 has been shown to co-precipitate with CD5 and to play a key role in CD5 tyrosine phosphorylation.



Two-color evaluation of splenic T lymphocytes. LEW splenocytes were simultaneously stained with PE-conjugated anti-rat CD3 mAb G4.18 (Cat. No. 554833) and FITC-conjugated mAb OX-52 (right panel). Flow cytometry was performed on a BD FACScan™ flow cytometry system.

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
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Suggested Companion Products

Catalog Number	Name	Size	Clone
554833	PE Mouse Anti-Rat CD3	0.2 mg	G4.18
553456	FITC Mouse IgG2a, κ Isotype Control	0.25 mg	G155-178

BD Biosciences

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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

Castro MA, Nunes RJ, Oliveira MI. OX52 is the rat homologue of CD6: evidence for an effector function in the regulation of CD5 phosphorylation. *J Leukoc Biol.* 2003; 73(1):183-190.(Biology)

Lawetzky A, Tiefenthaler G, Kubo R, Hunig T. Identification and characterization of rat T cell subpopulations expressing T cell receptors alpha/beta and gamma/delta. *Eur J Immunol.* 1990; 20(2):343-349.(Biology)

Robinson AP, Puklavec M, Mason DW. MRC OX-52: a rat T-cell antigen. *Immunology.* 1986; 57(4):527-531.(Immunogen)

Vaage JT, Dissen E, Ager A, Fossum S, Rolstad B. Allospecific recognition of hemic cells in vitro by natural killer cells from athymic rats: evidence that allodeterminants coded for by single major histocompatibility complex haplotypes are recognized. *Eur J Immunol.* 1991; 21(9):2167-2175.(Biology)