

Technical Data Sheet

FITC Mouse Anti-Rat CD45

Product Information

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| Material Number: | 561867 |
| Alternate Name: | Ptprc; Lca; Leucocyte common antigen; RT7; T200 |
| Size: | 50 µg |
| Concentration: | 0.5 mg/ml |
| Clone: | OX-1 |
| Immunogen: | Leukocyte Common Antigen-enriched Glycoprotein Fraction from Wistar Rat Thymocytes |
| Isotype: | Mouse (BALB/c) IgG1, κ |
| Reactivity: | QC Testing: Rat |
| Storage Buffer: | Aqueous buffered solution containing ≤0.09% sodium azide. |

Description

The OX-1 antibody reacts with all molecular forms of CD45 (Leukocyte Common Antigen) on all hematopoietic cells except erythrocytes. CD45 is a member of the Protein Tyrosine Phosphatase (PTP) family: Its intracellular (COOH-terminal) region contains two PTP catalytic domains, and the extracellular region is highly variable due to alternative splicing of exons 4, 5, and 6 (designated A, B, and C, respectively), plus differing levels of glycosylation. The CD45 isoforms detected in the rat are cell type-, maturation-, and activation state-specific. The CD45 isoforms play complex roles in T-cell and B-cell antigen receptor signal transduction.

Preparation and Storage

Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze.
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.

Application Notes

Application

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| Flow cytometry | Routinely Tested |
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Suggested Companion Products

| Catalog Number | Name | Size | Clone |
|----------------|------------------------------------|---------|----------|
| 550616 | FITC Mouse IgG1, κ Isotype Control | 0.25 mg | MOPC-31C |
| 554656 | Stain Buffer (FBS) | 500 ml | (none) |

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.
- For fluorochrome spectra and suitable instrument settings, please refer to our Fluorochrome Web Page at www.bdbiosciences.com/colors.

References

Johnson P, Maiti A. CD45: A family of leukocyte-specific cell surface glycoproteins. In: Herzenberg LA, Weir DM, Blackwell C, ed. *Weir's Handbook of Experimental Immunology, Vol 2*. Cambridge: Blackwell Science; 1997:62.1-62.16. (Biology)
Sunderland CA, McMaster WR, Williams AF. Purification with monoclonal antibody of a predominant leukocyte-common antigen and glycoprotein from rat thymocytes. *Eur J Immunol*. 1979; 9(2):155-159. (Immunogen: Flow cytometry)
Woollett GR, Barclay AN, et al. Molecular and antigenic heterogeneity of the rat leukocyte common antigen from thymocytes and T and B lymphocytes. *Eur J Immunol*. 1985; 15:168-173. (Biology)

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