Technical Data Sheet

Purified NA/LE Rat Anti-Mouse CD45

Product Information

Material Number: Alternate Name: Size **Concentration: Clone:** Immunogen: Isotype: **Reactivity: Storage Buffer:**

562166

Ptprc; CD45R; LCA; Leukocyte common antigen; T200; B220; Ly-5; Lyt-4 0.5 mg 1.0 mg/ml 30-F11 Mouse Thymus / Spleen Rat (LOU) IgG2b, ĸ QC Testing: Mouse No azide/low endotoxin: Aqueous buffered solution containing no preservative, 0.2µm sterile filtered. Endotoxin level is $\leq 0.01 \text{ EU/µg}$ ($\leq 0.001 \text{ ng/µg}$) of protein as determined by the LAL assay.

Description

The 30-F11 clone has been reported to react with all isoforms and both alloantigens of CD45, which is found on hematopoietic stem cells and all cells of hematopoietic origin, except erythrocytes. CD45 is a transmembrane glycoprotein which is expressed at high levels on the cell-surface, and its presence distinguishes leukocytes from non-hematopoietic cells. CD45 is a member of the Protein Tyrosine Phosphatase (PTP) family, where the intracellular carboxy-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 as A, B, and C, respectively). CD45 isoforms play complex roles in T-cell and B-cell antigen receptor signal transduction and the CD45 isoforms detected in the mouse are cell type-, maturation-, and activation state-specific.

Preparation and Storage

Store undiluted at 4°C.

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

This preparation contains no preservatives, thus it should be handled under aseptic conditions.

Application Notes

Flow cytometry	Routinely Tested						
Suggested Comp	anion Products						
Catalog Number	Name	Size	Clone				
553985	Purified NA/LE Rat IgG2b, ĸ Isotype Control	0.5 mg	A95-1				
554656	Stain Buffer (FBS)	500 ml	(none)				
Product Notices							
1. Please refer to wy	ww.bdbiosciences.com/pharmingen/protocols for technical protocols.						
2. Since application	s vary, each investigator should titrate the reagent to obtain optimal resu	lts.					
References	A family of laukocyte specific call surface alycoproteins. In: Herzenberg I & Weir D	M Blackwell C ed Weir's Handbor	ok of				

Experimental Immunology, Vol 2. Cambridge: Blackwell Science; 1997:62.1-62.16. (Biology)

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Tamaki K, Yasaka N, Chang CH, et al. Identification and characterization of novel dermal Thy-1 antigen-bearing dendritic cells in murine skin. J Invest Dermatol. 1996; 106(3):571-575. (Clone-specific: Immunofluorescence)

Tan J, Town T, Paris D, et al. Microglial activation resulting from CD40-CD40L interaction after beta-amyloid stimulation. Science. 1999; 286(5448):2352-2355. (Clone-specific: Immunohistochemistry)

Thomas ML. The leukocyte common antigen family. Annu Rev Immunol. 1989; 7:339-369. (Biology)

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