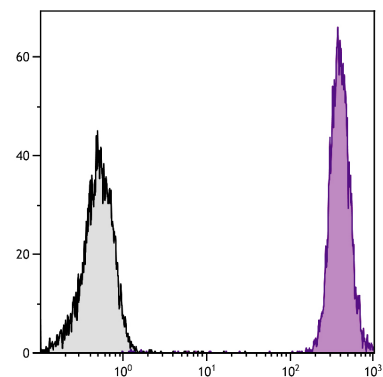




## Rat Anti-Mouse CD45

Cat. No.	Format	Size
1660-01	Purified (UNLB)	0.5 mg
1660-02	Fluorescein (FITC)	0.5 mg
1660-02S	Fluorescein (FITC)	0.1 mg
1660-08	Biotin (BIOT)	0.5 mg
1660-09	R-phycoerythrin (PE)	0.1 mg
1660-10	R-phycoerythrin-Texas Red® (PE/TXRD)	0.1 mg
1660-11	Allophycocyanin (APC)	0.1 mg
1660-13	Spectral Red® (SPRD)	0.1 mg
1660-14	Low Endotoxin, Azide-Free (LE/AF)	0.5 mg
1660-16	R-phycoerythrin-Cyanine 5.5 (PE/CY5.5)	0.1 mg
1660-17	R-phycoerythrin-Cyanine 7 (PE/CY7)	0.1 mg
1660-19	Allophycocyanin-Cyanine 7 (APC/CY7)	0.1 mg
1660-26	Pacific Blue™ (PACBLU)	0.1 mg
1660-27	Alexa Fluor® 700 (AF700)	0.1 mg
1660-30	Alexa Fluor® 488 (AF488)	0.1 mg
1660-31	Alexa Fluor® 647 (AF647)	0.1 mg



BALB/c mouse splenocytes were stained with Rat Anti-Mouse CD45-PE/TXRD (SB Cat. No. 1660-10).

### Overview

<b>Clone</b>	I3/2.3
<b>Isotype</b>	Rat (Lewis) IgG <sub>2b</sub> λ
<b>Immunogen</b>	T1M1 (Thy-1 <sup>+</sup> c) cells
<b>Specificity</b>	Mouse CD45 (all isoforms); Mr 180-240 kDa
<b>Alternate Name(s)</b>	LCA, leukocyte common antigen, T200, Ly-5, Receptor-type tyrosine-protein phosphatase C, Lyt-4, Ptprc

### Description

CD45 is the common leukocyte antigen and is expressed on all cells of hematopoietic origin except erythrocytes. CD45 exists as a number of different isoforms which result from alternative RNA splicing of exons 4, 5 and 6. The I3/2.3 monoclonal antibody recognizes a framework epitope present on all CD45 isoforms. The CD45 molecule has been implicated as playing a key role in thymic development and in antigen-driven proliferation of T cells.

### Applications

FC – Quality tested <sup>2,5-7</sup>  
 IHC-FS – Reported in literature <sup>3,4</sup>  
 IP – Reported in literature <sup>1,2</sup>

### Working Dilutions

<b>Flow Cytometry</b>	FITC, BIOT, AF488, and PACBLU conjugates	≤ 1 µg/10 <sup>6</sup> cells
	PE, PE/TXRD, APC, SPRD, APC/CY7, PE/CY5.5, PE/CY7, AF647, and AF700 conjugates	≤ 0.2 µg/10 <sup>6</sup> cells

For flow cytometry, the suggested use of these reagents is in a final volume of 100 µL

**Other Applications** Since applications vary, you should determine the optimum working dilution for the product that is appropriate for your specific need.

**For Research Use Only. Not for Diagnostic or Therapeutic Use.**

## Handling and Storage

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- The purified (UNLB) antibody is supplied as 0.5 mg of purified immunoglobulin in 1.0 mL of borate buffered saline, pH 8.2. *No preservatives or amine-containing buffer salts added.* Store at 2-8°C.
- The fluorescein (FITC) conjugate is supplied as 0.5 mg or 0.1 mg in 1.0 mL of PBS/NaN<sub>3</sub>. Store at 2-8°C.
- The biotin (BIOT) conjugate is supplied as 0.5 mg in 1.0 mL of PBS/NaN<sub>3</sub>. Store at 2-8°C.
- The R-phycoerythrin (PE) and allophycocyanin (APC) conjugates are supplied as 0.1 mg in 1.0 mL of PBS/NaN<sub>3</sub> and a stabilizing agent. Store at 2-8°C. **Do not freeze!**
- The Spectral Red<sup>®</sup> (SPRD), R-phycoerythrin-Texas Red<sup>®</sup> (PE/TXRD), R-phycoerythrin-Cyanine 7 (PE/CY7), R-phycoerythrin-Cyanine 5.5 (PE/CY5.5), and allophycocyanin-Cyanine 7 (APC/CY7) conjugates are supplied as 0.1 mg in 1.0 mL of PBS/NaN<sub>3</sub> and a stabilizing agent. Store at 2-8°C. **Do not freeze!**
- The low endotoxin, azide-free (LE/AF) antibody is supplied as 0.5 mg of purified immunoglobulin in 1.0 mL of PBS. **Aliquot and store at or below -20°C.**
- The Alexa Fluor<sup>®</sup> 488 (AF488), Alexa Fluor<sup>®</sup> 647 (AF647), Alexa Fluor<sup>®</sup> 700 (AF700), and Pacific Blue<sup>™</sup> (PACBLU) conjugates are supplied as 0.1 mg in 0.2 mL of PBS/NaN<sub>3</sub>. Store at 2-8°C.
- Protect fluorochrome-conjugated forms from light. Reagents are stable for the period shown on the label if stored as directed.

## Warning

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Some reagents contain sodium azide. Please refer to product specific (M)SDS.

## References

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Spectral Red<sup>®</sup> is a PE/CY5 tandem conjugate.

Cy<sup>®</sup> is a registered trademark of GE Healthcare.

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