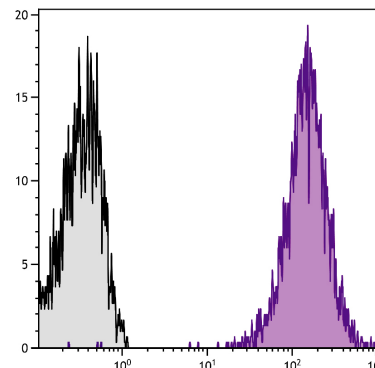




Rat Anti-Mouse CD25

Cat. No.	Format	Size
1595-01	Purified (UNLB)	0.5 mg
1595-02	Fluorescein (FITC)	0.5 mg
1595-02S	Fluorescein (FITC)	0.1 mg
1595-08	Biotin (BIOT)	0.5 mg
1595-09	R-phycoerythrin (PE)	0.1 mg
1595-09L	R-phycoerythrin (PE)	0.2 mg
1595-11	Allophycocyanin (APC)	0.1 mg
1595-13	Spectral Red [®] (SPRD)	0.1 mg
1595-14	Low Endotoxin, Azide-Free, (LE/AF)	0.5 mg
1595-17	R-phycoerythrin-Cyanine 7 (PE/CY7)	0.1 mg



C57BL/6 mouse cytotoxic T lymphocyte cell line CTLL-2 was stained with Rat Anti-Mouse CD25-PE/CY7 (SB Cat. No. 1595-17).

Overview

Clone	7D4
Isotype	Rat (Lewis) IgM κ
Immunogen	IL-2 dependent BALB/c helper T cell clone, HT2
Specificity	Mouse CD25; Mr 55 kDa
Alternate Name(s)	IL-2R α , p55, IL-2 receptor α chain, Ly-43, Tac, IL-2-RA

Description

The IL-2 receptor (IL-2R) exists in three alternative forms made up from the individual components of CD25, CD122, and CD132. CD25 represents the low affinity α chain of the IL-2R, a type I transmembrane glycoprotein containing two CCP domains. It is rich in O-linked carbohydrates and has a short cytoplasmic tail. CD25 is expressed on activated T cells, B cells, NK cells, and monocytes of all mouse strains tested. It is transiently expressed at a low level during B cell development in bone marrow on the CD45R/B220^{low} TdT⁻ sIg⁻ pre-B II and CD45R/B220^{low} TdT⁻ sIgM⁺sIgD⁻ immature B cells, but not on the CD45R/B220^{low} TdT⁺ sIg⁻ pro-B/pre-B I stage nor on CD45R/B220^{high} TdT⁻ sIgM⁺sIgD⁺ mature B cells. CD25 is expressed at a higher level during very early T-cell development in fetal and adult thymus. The 7D4 monoclonal antibody reacts with an epitope between amino acids 125 and 212 that is distinct from that recognized by the monoclonal antibody 3C7 (SB Cat. No. 1600). While the monoclonal antibody 7D4 does not block the binding of IL-2 to CD25, when used in combination with the monoclonal antibody 3C7 it results in higher levels of inhibition of IL-2-driven proliferation than either of these two monoclonal antibodies alone.

Applications

FC – Quality tested ^{1,6-11}
 IHC-FS – Reported in literature ⁴
 IP – Reported in literature ^{1,2}
 Neut – Reported in literature ³
 Block – Reported in literature ^{1,2,13}
 Depletion – Reported in literature ⁵
 CMCD – Reported in literature ¹²

Working Dilutions

Flow Cytometry	FITC and BIOT conjugates	$\leq 1 \mu\text{g}/10^6$ cells
	PE, APC, SPRD, and PE/CY7 conjugates	$\leq 0.2 \mu\text{g}/10^6$ 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

- 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/NaN₃. Store at 2-8°C.
- The biotin (BIOT) conjugate is supplied as 0.5 mg in 1.0 mL of PBS/NaN₃. Store at 2-8°C.
- The R-phycoerythrin (PE) conjugate is supplied as 0.1 mg in 1.0 mL or 0.2 mg in 2.0 mL of PBS/NaN₃ and a stabilizing agent. Store at 2-8°C. **Do not freeze!**
- The allophycocyanin (APC) conjugate is supplied as 0.1 mg in 1.0 mL of PBS/NaN₃ and a stabilizing agent. Store at 2-8°C. **Do not freeze!**
- The Spectral Red[®] (SPRD) and R-phycoerythrin-Cyanine 7 (PE/CY7) conjugates are supplied as 0.1 mg in 1.0 mL of PBS/NaN₃ 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.**
- Protect fluorochrome-conjugated forms from light. Reagents are stable for the period shown on the label if stored as directed.

Warning

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

References

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12. Pollard AM, Lipscomb MF. Characterization of murine lung dendritic cells: similarities to Langerhans cells and thymic dendritic cells. *Eur J Immunol.* 1990;172:159-67. (CMCD)
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Spectral Red[®] is a PE/CY5 tandem conjugate.

Cy[®] is a registered trademark of GE Healthcare.