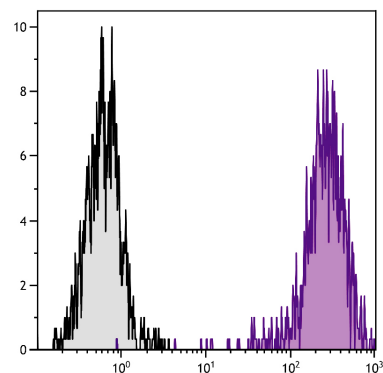




## Rat Anti-Mouse CD25

Cat. No.	Format	Size
1600-01	Purified (UNLB)	0.5 mg
1600-02	Fluorescein (FITC)	0.5 mg
1600-08	Biotin (BIOT)	0.5 mg
1600-09	R-phycoerythrin (PE)	0.1 mg
1600-09L	R-phycoerythrin (PE)	0.2 mg
1600-11	Allophycocyanin (APC)	0.1 mg
1600-13	Spectral Red <sup>®</sup> (SPRD)	0.1 mg
1600-14	Low Endotoxin, Azide-Free (LE/AF)	0.5 mg
1600-17	R-phycoerythrin-Cyanine 7 (PE/CY7)	0.1 mg
1600-27	Alexa Fluor <sup>®</sup> 700 (AF700)	0.1 mg



C57BL/6 mouse cytotoxic T lymphocyte cell line CTLL-2 was stained with Rat Anti-Mouse CD25-APC (SB Cat. No. 1600-11).

### Overview

<b>Clone</b>	3C7
<b>Isotype</b>	Rat (Lewis) IgG <sub>2b</sub> K
<b>Immunogen</b>	IL-2 dependent BALB/c helper T cell clone HT2
<b>Specificity</b>	Mouse CD25; Mr 55 kDa
<b>Alternate Name(s)</b>	IL-2R $\alpha$ , p55, IL-2 receptor $\alpha$ 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  $\alpha$  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. Expression of CD25 on activated T lymphocytes is transitory and endogenously regulated. CD25 is expressed on precursor B cells in bone marrow. Its expression is initiated by functional rearrangement and expression of IgM heavy chain genes and is down-regulated when immature B cells mature and express IgD. It is expressed at a higher level on CD4<sup>+</sup>CD8<sup>+</sup> thymocytes. It is also expressed on cultured epidermal Langerhans cells. The biochemical features of murine CD25 have been characterized in detail. The 3C7 monoclonal antibody reacts with an epitope of CD25 which is distinct from that recognized by clone 7D4. 3C7, used in combination with 7D4 in culture, results in higher levels of inhibition of proliferation driven by IL-2 and generation of alloreactive CTL than either of these monoclonal antibodies alone.

### Applications

FC – Quality tested <sup>1,4</sup>  
 IHC-FS – Reported in literature <sup>5,6</sup>  
 IP – Reported in literature <sup>1</sup>  
 Block – Reported in literature <sup>1,3</sup>  
 Neut – Reported in literature <sup>2</sup>

### Working Dilutions

<b>Flow Cytometry</b>	FITC and BIOT conjugates	$\leq 3 \mu\text{g}/10^6$ cells
	PE, APC, SPRD, PE/CY7, and AF700 conjugates	$\leq 0.3 \mu\text{g}/10^6$ cells
For flow cytometry, the suggested use of these reagents is in a final volume of 100 $\mu\text{L}$ .		

**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.**

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## 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 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) conjugate is supplied as 0.1 mg in 1.0 mL or 0.2 mg in 2.0 mL of PBS/NaN<sub>3</sub> 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/NaN<sub>3</sub> and a stabilizing agent. Store at 2-8°C. **Do not freeze!**
- The Spectral Red<sup>®</sup> (SPRD) and R-phycoerythrin-Cyanine 7 (PE/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> 700 (AF700) conjugate is 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 SDS.

## References

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6. Comes A, Rosso O, Orengo AM, Di Carlo E, Sorrentino C, Meazza R, et al. CD25<sup>+</sup> regulatory T cell depletion augments immunotherapy of micrometastases by an IL-21-secreting cellular vaccine. *J Immuno.* 2006;176:1750-8. (IHC-FC)

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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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