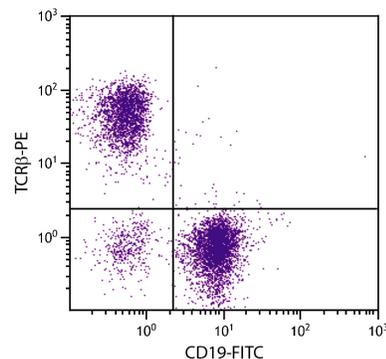




## Hamster Anti-Mouse TCR $\beta$

Cat. No.	Format	Size
1785-01	Purified (UNLB)	0.5 mg
1785-02	Fluorescein (FITC)	0.5 mg
1785-02S	Fluorescein (FITC)	0.1 mg
1785-08	Biotin (BIOT)	0.5 mg
1785-09	R-phycoerythrin (PE)	0.1 mg
1785-11	Allophycocyanin (APC)	0.1 mg
1785-13	Spectral Red <sup>®</sup> (SPRD)	0.1 mg
1785-14	Low Endotoxin, Azide-Free (LE/AF)	0.5 mg
1785-16	R-phycoerythrin-Cyanine 5.5 (PE/CY5.5)	0.1 mg
1785-26	Pacific Blue <sup>™</sup> (PACBLU)	0.1 mg
1785-27	Alexa Fluor <sup>®</sup> 700 (AF700)	0.1 mg
1785-30	Alexa Fluor <sup>®</sup> 488 (AF488)	0.1 mg
1785-31	Alexa Fluor <sup>®</sup> 647 (AF647)	0.1 mg



BALB/c mouse splenocytes were stained with Hamster Anti-Mouse TCR $\beta$ -PE (SB Cat. No. 1785-09) and Rat Anti-Mouse CD19-FITC (SB Cat. No. 1575-02).

### Overview

<b>Clone</b>	H57-597
<b>Isotype</b>	Hamster (Armenian) IgG <sub>2</sub>
<b>Immunogen</b>	TCR affinity purified from mouse T-cell hybridoma DO-11.10
<b>Specificity</b>	Mouse TCR $\beta$
<b>Alternate Name(s)</b>	N/A

### Description

The  $\alpha\beta$  TCR is expressed on T lymphocytes of all mouse strains tested. The H57-597 monoclonal antibody does not react with  $\gamma\delta$  TCR-bearing cells. Plate-bound or soluble H57-597 activates  $\alpha\beta$  TCR-bearing T cells. *In vitro* and *in vivo*, H57-597 can induce immature thymocytes to undergo apoptosis. *In vivo* administration of H57-597 has been shown to deplete  $\alpha\beta$  TCR-bearing cells to near completion and prevent graft rejection.

### Applications

FC – Quality tested <sup>1,8-12</sup>  
 IHC – Reported in literature <sup>7</sup>  
 ICC – Reported in literature <sup>6</sup>  
 IP – Reported in literature <sup>1</sup>  
 Stim – Reported in literature <sup>1,2</sup>  
 Depletion – Reported in literature <sup>3,4</sup>  
 Sep – Reported in literature <sup>5</sup>

### Working Dilutions

<b>Flow Cytometry</b>	FITC, BIOT, and AF488 conjugates	$\leq 2 \mu\text{g}/10^6$ cells
	PACBLU conjugate	$\leq 0.3 \mu\text{g}/10^6$ cells
	PE, APC, SPRD, PE/CY5.5, AF647, and AF700 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 $\mu\text{L}$ .	

**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 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® (SPRD) and R-phycoerythrin-Cyanine 5.5 (PE/CY5.5) 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 purified immunoglobulin in 1.0 mL of PBS. Contains no preservative; handle under aseptic conditions. Store at 2-8°C or aliquot into smaller volumes and store at -20°C. Avoid multiple freeze / thaw cycles.
- The Alexa Fluor® 488 (AF488), Alexa Fluor® 647 (AF647), Alexa Fluor® 700 (AF700), and Pacific Blue™ (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 SDS.

## References

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