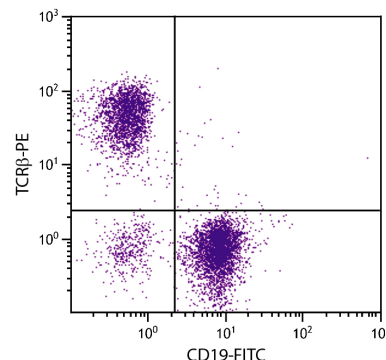




Hamster Anti-Mouse TCR β

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 [®] (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 [™] (PACBLU)	0.1 mg
1785-27	Alexa Fluor [®] 700 (AF700)	0.1 mg
1785-30	Alexa Fluor [®] 488 (AF488)	0.1 mg
1785-31	Alexa Fluor [®] 647 (AF647)	0.1 mg



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

Overview

Clone	H57-597
Isotype	Hamster (Armenian) IgG ₂
Immunogen	TCR affinity purified from mouse T-cell hybridoma DO-11.10
Specificity	Mouse TCR β
Alternate Name(s)	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 ^{1,8-12}
 IHC – Reported in literature ⁷
 ICC – Reported in literature ⁶
 IP – Reported in literature ¹
 Stim – Reported in literature ^{1,2}
 Depletion – Reported in literature ^{3,4}
 Sep – Reported in literature ⁵

Working Dilutions

Flow Cytometry	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 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) and allophycocyanin (APC) 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 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/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 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/NaN₃. 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

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

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