



CELL LAB Hamster Anti-Mouse TCR $\alpha\beta$

Cat. No.	Form	Quantity
732246	Purified (UNLB) Antibody	0.5 mg
732247	Fluorescein (FITC) Conjugate	0.5 mg
732248	Fluorescein (FITC) Conjugate	0.1 mg
732249	Biotin (BIOT) Conjugate	0.5 mg
732250	Phycoerythrin (PE) Conjugate	0.1 mg
732251	Spectral Red™ (SPRD) Conjugate	0.1 mg

For Laboratory Use Only

DESCRIPTION

Clone:	H57-597
Isotype:	Armenian Hamster IgG
Immunogen:	TCR affinity purified from mouse T-cell hybridoma DO-11.10 ¹
Specificity:	Common epitope of the β chain of the mouse $\alpha\beta$ T cell receptor (TCR) complex

The $\alpha\beta$ TCR is expressed on T lymphocytes of all mouse strains tested.² The H57-597 monoclonal antibody does not react with $\gamma\delta$ TCR-bearing cells.² Plate-bound or soluble H57-597 activates $\alpha\beta$ TCR-bearing T cells.² *In vitro* H57-597 can induce immature thymocytes to undergo apoptosis.^{3,4}

APPLICATIONS

- Flow cytometry^{2,5,6}
- Immunohistochemistry (acetone-fixed, frozen sections and formalin-fixed, paraffin-embedded sections)
- Immunoprecipitation^{2,7}
- *In vitro* stimulation of $\alpha\beta$ TCR-expressing T cells²
- *In vitro* depletion of $\alpha\beta$ TCR-bearing cells⁸

CHARACTERIZATION

To ensure lot-to-lot consistency, each batch of product is tested to conform with characteristics of a standard reference reagent using flow cytometry.

WORKING DILUTIONS

Immunofluorescence:	FITC conjugate	$\leq 2 \mu\text{g}/10^6$ cells
	BIOT conjugate	$\leq 2 \mu\text{g}/10^6$ cells
	PE conjugate	$\leq 0.2 \mu\text{g}/10^6$ cells
	SPRD conjugate	$\leq 0.2 \mu\text{g}/10^6$ cells

Other Applications: Since applications vary, determine the optimum working dilution of the product that is appropriate for your specific needs.

HANDLING AND STORAGE

- The purified (UNLB) antibody is supplied as 0.5 mg of purified immunoglobulin in 1.0 mL of 100 mM borate buffered saline, pH 8.0. No preservatives or amine-containing buffer salts added.
- The fluorescein (FITC) conjugates are supplied as 0.5 mg or 0.1 mg in 1.0 mL of PBS/NaN₃.
- The biotin (BIOT) conjugate is supplied as 0.5 mg in 1.0 mL of PBS/NaN₃.
- The phycoerythrin (PE) conjugate is supplied as 0.1 mg in 1.0 mL of PBS/NaN₃ and a stabilizing agent.
- The Spectral Red (SPRD) conjugate is supplied as 0.1 mg in 1.0 mL of PBS/NaN₃ and a stabilizing agent.
- Protect fluorochrome-conjugated forms from light. Do not freeze.
- Reagent is stable until the expiration date on the vial when stored at 2-8°C.

STATEMENT OF WARNINGS

1. Specimens, samples and all material coming in contact with them should be handled as if capable of transmitting infection and disposed of with proper precautions.
2. Never pipet by mouth and avoid contact of samples with skin and mucous membranes.
3. Do not use reagent beyond the expiration date on the vial label.
4. Minimize exposure of reagent to light during storage or incubation.
5. Avoid microbial contamination of reagent or erroneous results may occur.
6. Use Good Laboratory Practice (GLP) when handling this reagent.
7. Harmful if swallowed.
8. After contact with skin, wash immediately with plenty of water.
9. Contains sodium azide. Sodium azide under acidic conditions yields hydrazoic acid, an extremely toxic compound. Azide compounds should be flushed with running water while being discarded. These precautions are recommended to avoid deposits in metal piping in which explosive conditions can develop. If skin or eye contact occurs, immediately wash excessively with water.

TRADEMARKS

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CY5 is a trademark of GE Healthcare, Inc.

For additional information or if damaged product is received, contact your local Beckman Coulter Representative.

Spectral Red is a PE/Cy[™]5 tandem conjugate. Cy5 is for non-commercial research use only, not for therapeutic or in vivo applications. Other use needs license from Amersham Biosciences Corp., under U.S. Patent Nos. 4,981,977 and 5,268,486 and other patents pending. This material (or portions of this material) is subject to proprietary rights of Amersham Biosciences Corp. and Carnegie Mellon University and made and sold under license from Amersham Biosciences Corp. This product is licensed for sale only for research. It is not licensed for any other use. There is no implied license hereunder for any commercial use. Commercial use shall include: 1) sale, lease, license or other transfer of the material or any material derived or produced from it 2) sale, lease, license or other grant of rights to use this material or any material derived or produced from it 3) use of this material to perform services for a fee for third parties. If you require a commercial license to use this material and do not have one, return this material, unopened to Beckman Coulter, Inc. 11800 SW 147 Ave. Miami, FL 33196, USA and any money paid for the material will be refunded.

REFERENCES

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Fullerton, CA 92835
www.beckmancoulter.com

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