



CELL LAB Hamster Anti-Mouse TCR $\gamma\delta$

<u>Cat. No.</u>	<u>Form</u>	<u>Quantity</u>
732241	Purified (UNLB) Antibody	0.5 mg
732242	Fluorescein (FITC) Conjugate	0.5 mg
732243	Biotin (BIOT) Conjugate	0.5 mg
732244	Phycoerythrin (PE) Conjugate	0.1 mg
731905	Phycoerythrin (PE) Conjugate	0.2 mg
731906	Spectral Red™ (SPRD) Conjugate	0.1 mg

For Laboratory Use Only

DESCRIPTION

Clone: UC7-13D5
Isotype: Armenian Hamster IgG
Specificity: $\gamma\delta$ T-cell receptor (TCR) complex

The TCR $\gamma\delta$ heterodimer of the CD3/T-cell receptor complex is clonotypic and consists of Ig-like variable and constant domains.¹ It is expressed during thymopoiesis and on the small subpopulation of $\gamma\delta$ TCR-expressing T lymphocytes in the periphery. The majority of T cells present in some epithelial tissues are $\gamma\delta^+$ and have limited receptor diversity.^{1,2} The TCR $\gamma\delta$ heterodimer recognizes peptide antigen bound to MHC antigens, and subsequent signal transduction mediated by the invariant chains leads to T cell activation.³ Monoclonal antibody UC7-13D5 is specific for the $\gamma\delta$ heterodimer and plate-bound UC7-13D5 activates $\gamma\delta$ TCR-bearing cells.⁴⁻⁷ This antibody does not react with $\alpha\beta$ TCR-expressing T cells.

APPLICATIONS

- Flow cytometry⁴⁻⁷
- Immunohistochemistry (acetone-fixed, frozen sections)
- Immunoprecipitation⁵
- *In vitro* activation of $\gamma\delta$ TCR-bearing cells⁵

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

Flow Cytometry:

FITC conjugate	$\leq 1 \mu\text{g}/10^6$ cells
BIOT conjugate	$\leq 0.3 \mu\text{g}/10^6$ cells
PE conjugate	$\leq 0.3 \mu\text{g}/10^6$ cells
SPRD conjugate	$\leq 0.3 \mu\text{g}/10^6$ 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) conjugate is supplied as 0.5 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) conjugates are supplied as 0.1 mg in 1.0 mL or 0.2 mg in 2.0 mL 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.

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Spectral Red is a PE/CyTM5 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.

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Manufactured for:
Beckman Coulter, Inc.
4300 N. Harbor Blvd.
Fullerton, CA 92835
www.beckmancoulter.com

Printed in USA
Made in USA

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PN 733953-A