

TCRb Hamster Anti-Mouse Monoclonal Antibody (clone H57-597), PE Conjugate

Store at 2°C to 8°C

Pub. No. MAN0008016 Rev. 1.00

| Catalog No. | Form | Amount | Excitation | Peak Emission |
|-------------|------|--------|------------|---------------|
| A15408 | PE | 0.1 mg | 496 nm | 578 nm |

Product Description

The $\alpha\beta$ TCR is expressed on T lymphocytes of all mouse strains tested.² The TCRb Hamster Anti-Mouse Monoclonal Antibody (mAb) does not react with $\alpha\beta$ TCR-bearing cells.² Plate-bound or soluble TCRb Hamster Anti-Mouse mAb activates $\alpha\beta$ TCR-bearing T cells.² It can also induce immature thymocytes to undergo apoptosis *in vitro* and *in vivo*.^{3,4}

Product Specifications

| | |
|---------------------------|---|
| Clonality: | Monoclonal |
| Host/Class: | Armenian Hamster IgG |
| Reactivity: | Mouse TCR $\alpha\beta$ |
| Immunogen: | TCR affinity purified from mouse T cell hybridoma DO-11.10 ¹ |
| Sequence Identity: | Mouse |
| Clone/PAD: | H57-597 |
| Isotype: | IgG |
| Lot: | See product label |

Product Applications

Applications reported for the TCRb Hamster Anti-Mouse mAb include flow cytometry,^{2,5,6} immunohistochemistry,⁹ and immunoprecipitation.^{2,7}

Because conditions may vary, it is recommended that each investigator determine the optimal amount of antibody to be used for each application.

Storage and Handling

Store reagents at 2°C to 8°C. If the reagent is being diluted, it is recommended that only the quantity to be used within one week be diluted. Cells should be analyzed within 18 hours of staining for best results.

Avoid light exposure with fluorochrome-conjugated antibodies. Use dim light during handling, incubation with cells, and prior to analysis.

Stability

When stored as instructed, expires one year from date of receipt unless otherwise indicated on the Certificate of Analysis.

Storage Buffer

Phosphate buffered saline (PBS) with 0.1% sodium azide.



CAUTION! Sodium azide is extremely toxic and may react with lead and copper plumbing to form highly explosive metal azides. Properly dispose of solutions containing sodium azide. Read the Safety Data Sheet (SDS) and follow the handling instructions. Wear appropriate protective eyewear, clothing, and gloves. SDSs are available at www.lifetechnologies.com/support.

References

1. Gascoigne, N. R. J. 1990. *J. Biol. Chem.* 265:9296.
2. Kubo, R. T., W. Born, J. W. Kappler, P. Marrack, and M. Pigeon. 1989. *J. Immunol.* 142:2736.
3. Finkel, T. H., J. C. Cambier, R. T. Kubo, W. K. Born, P. Marrack, and J. W. Kappler. 1989. *Cell* 58:1047.
4. Shi, Y. F., R. P. Bissonnette, N. Parfrey, M. Szalay, R. T. Kubo, and D. R. Green. 1991. *J. Immunol.* 146:3340.
5. Finkel, T. H., P. Marrack, J. W. Kappler, R. T. Kubo, and J. C. Cambier. 1989. *J. Immunol.* 142:3006.
6. Iwata, M., K. Katamura, R. T. Kubo, and K. Ishizaka. 1989. *J. Immunol.* 143:3909.
7. Iwata, M., K. Katamura, R. T. Kubo, H. M. Grey, and K. Ishizaka. 1989. *J. Immunol.* 143:3917.
8. Byrne, J. A., J. L. Butler, E. L. Reinherz, and M. D. Cooper. 1989. *Int. Immunol.* 1:29.
9. Ellmeier, W., S. Jung, M.J. Sunshine, F. Hatam, Y. Xu, D. Baltimore, H. Mano, and D.R. Littman. 2000. *J. Exp. Med.* 192(11):1611.

Related Products

| Product Name | Quantity | Cat. No. |
|---|-----------------------|----------|
| AbC™ Anti-Mouse Bead Kit | 1 kit | A10344 |
| AbC™ Anti-Rat/Hamster Bead Kit | 1 kit | A10389 |
| FIX & PERM® Reagents (200 tests) | 1 kit | GAS004 |
| LIVE/DEAD® Fixable Dead Cell Stain Kits | | |
| Blue (UV excitation) | 1 kit (200 assays) | L23105 |
| Violet (405 nm excitation) | | L34955 |
| Yellow (405 nm excitation) | | L34959 |
| Red (488 nm excitation) | | L23102 |
| Near-IR (633/635 nm excitation) | | L10119 |

Product Documentation

To obtain a Certificate of Analysis or Safety Data Sheets (SDSs), visit www.lifetechnologies.com/support.

Limited Product Warranty

Life Technologies Corporation and/or its affiliate(s) warrant their products as set forth in the Life Technologies' General Terms and Conditions of Sale found on Life Technologies' website at www.lifetechnologies.com/termsandconditions. If you have any questions, please contact Life Technologies at www.lifetechnologies.com/support.

Explanation of symbols

| Symbol | Description | Symbol | Description | Symbol | Description |
|---|------------------------------|---|---|---|-------------|
|  | Manufacturer |  | Catalog number |  | Batch code |
|  | Use by |  | Temperature limitation | | |
|  | Consult instructions for use |  | Caution, consult accompanying documents | | |

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