

TCRb Hamster Anti-Mouse Monoclonal Antibody (clone H57-597), PE-Cy®5.5 Conjugate

Store at 2°C to 8°C

Pub. No. MAN0008018 Rev. 1.00

Catalog No.	Form	Amount	Excitation	Peak Emission
A15410	PE-Cy®5.5	0.1 mg	488 nm	694 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.
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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.

Product Documentation

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

Limited Product Warranty

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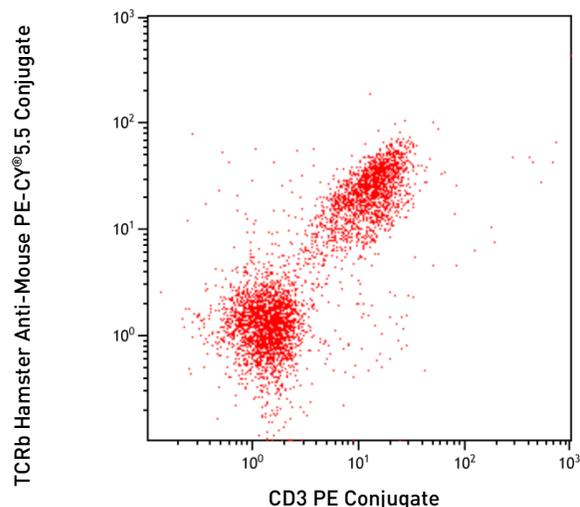


Figure 1 Immunofluorescent staining of BALB/c splenocytes stained with TCRb Hamster Anti-Mouse Monoclonal Antibody PE-Cy^{5.5} Conjugate (Cat. no. A15410).

BALB/c splenocytes were double-stained with TCRb Hamster Anti-Mouse Monoclonal Antibody PE-Cy^{5.5} Conjugate (0.1 µg/10⁶ cells) and a CD3 rat anti-mouse PE conjugate. Small lymphocytes were gated and analyzed on a flow cytometer.

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

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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