

PRODUCT INSERT

HAMSTER anti-MOUSE $\alpha\beta$ TCR

| Product Code | Form | Volume | Antibody* | Excitation (nm) | Peak Emission (nm) | Matching Isotype Controls |
|--------------|-------------------------------|--------|-------------|-----------------|--------------------|---------------------------------------|
| HM36153 | Biotin | 3.0 ml | 300 μ g | | | |
| HM3628 | Pacific Blue™ | 1.0 ml | 200 μ g | 405 | 455 | Hamster IgG Pacific Blue™ Code HM28 |
| HM3620 | Alexa Fluor® [†] 488 | 1.0 ml | 100 μ g | 488 | 519 | Hamster IgG Alexa Fluor 488 Code HM20 |
| HM3606 | TC [‡] | 0.5 ml | 100 μ g | 488 | 670 | Hamster IgG TC Code HM06 |
| HM3605 | APC | 0.5 ml | 100 μ g | 600-650 | 660 | Hamster IgG APC Code HM05 |
| HM3621 | Alexa Fluor® [‡] 647 | 1.0 ml | 100 μ g | 600-650 | 668 | Hamster IgG Alexa Fluor 647 Code HM21 |

PRODUCT DESCRIPTION

Hamster monoclonal antibody to mouse $\alpha\beta$ T-cell Receptor (TCR)

Clone: H57-597

Isotype: Armenian Hamster IgG

Immunogen: Affinity purified DO11.10 TCR¹

Lot No.: See label **Expiration:** See label

Concentration: See label

Buffer: Phosphate buffered saline (PBS)

Preservatives: 0.1% *sodium azide*. Sodium azide is an extremely toxic and dangerous compound particularly when combined with acids or metals. Solutions containing sodium azide should be disposed of properly.

Stabilizer: For conjugated products only, a highly purified grade of BSA has been added as a stabilizing agent.

STORAGE & HANDLING

Store reagents at 2-8°C. Light exposure should be avoided with fluorochrome-conjugated reagents. Use dim light during handling, incubation with cells and prior to analysis. It is recommended that cells be analyzed within 18 hours of staining. If the reagent is being diluted, it is recommended that only the quantity to be used within one week be diluted.

PRODUCT CHARACTERIZATION

Antigen Specificity: The H57-597 monoclonal antibody (mAb) reacts with all mouse $\alpha\beta$ TCR expressing T cells via the β chain of the T-cell receptor. The H57-597 mAb does not react with the mouse $\gamma\delta$ TCR. Immobilized H57-597 mAb has been reported to activate T cells bearing $\alpha\beta$ TCR¹.














PRODUCT QUALITY CONTROL

Every lot is tested by flow cytometry using freshly harvested mouse lymph node cells. When staining with H57-597, it is suggested that Fc receptors be pre-blocked with purified mouse CD16/32 antibody (Cat.# MFCR00) to reduce Fc receptor-mediated non-specific binding. Because conditions may vary, it is recommended that each investigator determine the optimal amount of antibody to be used for each application.

REFERENCES:

1. Kubo, R. T., W. Born, J. W. Kappler, P. Marrack, and M. Pigeon. 1989. Characterization of a monoclonal antibody which detects all murine $\alpha\beta$ T cell receptors. *J. Immunol.* 142: 2736-2742.

Explanation of symbols

| Symbol | Description | Symbol | Description |
|---|---|---|--|
|  | Catalogue Number |  | Batch code |
|  | Research Use Only |  | <i>In vitro</i> diagnostic medical device |
|  | Use by |  | Temperature limitation |
|  | Manufacturer |  | European Community authorised representative |
|  | Without, does not contain |  | With, contains |
|  | Protect from light |  | Consult accompanying documents |
|  | Directs the user to consult instructions for use (IFU), accompanying the product. | | |

For Research Use Only. CAUTION: Not for human or animal therapeutic or diagnostic use.

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