

Datasheet for ABIN968932
anti-TCR alpha/beta antibody

2 Images

8 Publications

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Overview

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|--------------|--|
| Quantity: | 0.1 mg |
| Target: | TCR alpha/beta |
| Reactivity: | Rat, Non-Human Primate |
| Host: | Mouse |
| Clonality: | Monoclonal |
| Conjugate: | This TCR alpha/beta antibody is un-conjugated |
| Application: | Flow Cytometry (FACS), Immunoprecipitation (IP), Immunohistochemistry (Frozen Sections) (IHC (fro)), Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunocytochemistry (ICC) |

Product Details

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|-----------------------------|---|
| Immunogen: | Rat T blasts and erythrocytes |
| Clone: | R73 |
| Isotype: | IgG1 kappa |
| Specificity: | The mouse monoclonal R73 recognizes an extracellular epitope TCR alpha/beta, the dominant subtype of T cell receptor expressed in peripheral blood. |
| Cross-Reactivity (Details): | Non-Human Primates, Rat |
| Purification: | Purified by protein-A affinity chromatography. |
| Purity: | > 95 % (by SDS-PAGE) |

Target Details

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| Target: | TCR alpha/beta |
| Alternative Name: | TCR alpha/beta (TCR alpha/beta Products) |
| Background: | The antigen-specific T cell receptor (TCR) is composed of either alpha and beta subunit, or gamma and delta subunit. Majority of T cells present in the blood, lymph and secondary lymphoid organs express TCR alpha/beta heterodimers, whereas the T cells expressing TCR gamma/delta heterodimers are localized mainly in epithelial tissues and at the sites of infection. The subunits of TCR heterodimers are covalently bonded and in the endoplasmic reticulum they associate with CD3 subunits to form functional TCR-CD3 complex. Lack of expression of any of the chains is sufficient to stop cell surface expression.,TCRA/B |

Application Details

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| Application Notes: | Flow cytometry: Recommended dilution: 1-5 µg/mL. |
| Restrictions: | For Research Use only |

Handling

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| Concentration: | 1 mg/mL |
| Buffer: | Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide |
| Preservative: | Sodium azide |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |
| Handling Advice: | Do not freeze. |
| Storage: | 4 °C |
| Storage Comment: | Store at 2-8°C. Do not freeze. |

Publications

| | |
|-------------------|--|
| Product cited in: | Fuller, Bogdani, Tupling, Jensen, Pefley, Manavi, Cort, Blankenhorn, Mordes, Lernmark, Kwitek: "Genetic dissection reveals diabetes loci proximal to the gimap5 lymphopenia gene." in: Physiological genomics , Vol. 38, Issue 1, pp. 89-97, (2009) (PubMed). |
| | Müller, van den Brandt, Odoardi, Tischner, Herath, Flügel, Reichardt: "A CD28 superagonistic antibody elicits 2 functionally distinct waves of T cell activation in rats." in: The Journal of |

clinical investigation, Vol. 118, Issue 4, pp. 1405-16, (2008) ([PubMed](#)).

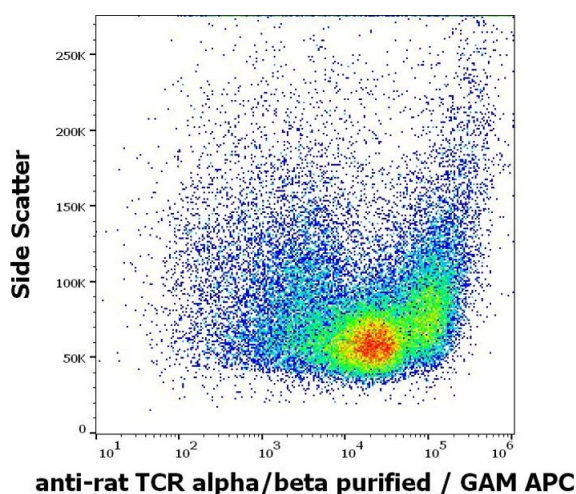
Radojevic, Arsenovic-Ranin, Kosec, Pesic, Pilipovic, Perisic, Plecas-Solarovic, Leposavic: "Neonatal castration affects intrathymic kinetics of T-cell differentiation and the spleen T-cell level." in: **The Journal of endocrinology**, Vol. 192, Issue 3, pp. 669-82, (2007) ([PubMed](#)).

Shao, Sun, Kaplan, Sun: "Characterization of rat CD8+ uveitogenic T cells specific for interphotoreceptor retinal-binding protein 1177-1191." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 173, Issue 4, pp. 2849-54, (2004) ([PubMed](#)).

Kerstan, Hünig: "Cutting edge: distinct TCR- and CD28-derived signals regulate CD95L, Bcl-xL, and the survival of primary T cells." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 172, Issue 3, pp. 1341-5, (2004) ([PubMed](#)).

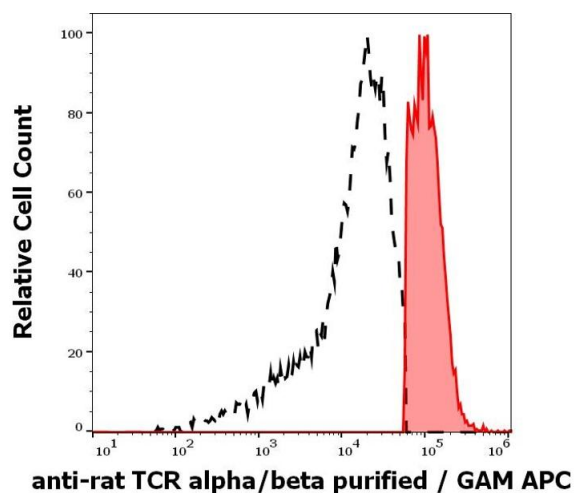
There are more publications referencing this product on: [Product page](#)

Images



Flow Cytometry

Image 1. Flow cytometry surface staining pattern of rat thymocyte suspension stained using anti-rat TCR alpha/beta (R73) purified antibody (concentration in sample 1.6 µg/mL) GAM APC.



Flow Cytometry

Image 2. Separation of rat TCR alpha/beta positive thymocytes (red-filled) from TCR alpha/beta negative thymocytes (black-dashed) in flow cytometry analysis (surface staining) of rat thymocyte suspension stained using anti-rat TCR alpha/beta (R73) purified antibody (concentration in sample 1.6 $\mu\text{g/mL}$) GAM APC.