Datasheet for ABIN2749096

anti-TCR alpha/beta antibody (PE)

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Overview

Quantity:	100 µg
Target:	TCR alpha/beta
Reactivity:	Rat, Non-Human Primate
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This TCR alpha/beta antibody is conjugated to PE
Application:	Flow Cytometry (FACS)

Product Details

Purpose:	Anti-Rt TCR alpha/beta PE
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 antibody is conjugated with R-phycoerythrin (PE) under optimum conditions. Unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.

Target Details

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

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

Handling

Concentration:	0.5 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.
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Protect from prolonged exposure to light. 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).

Publications

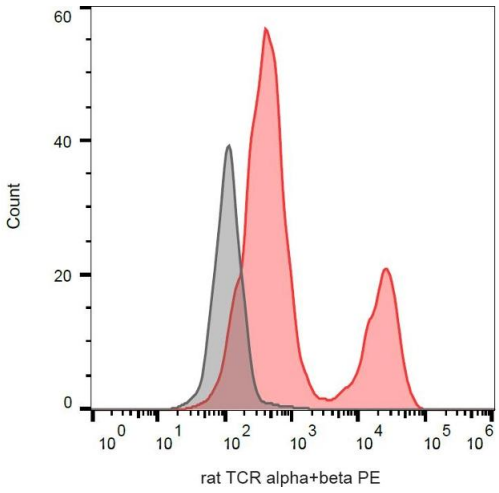
Radojevic, Arsenovic-Ranin, Kosec, Pesic, Pilipovic, Perisic, Plecas-Solarovic, Leposavic: " Neonatal castration affects intrathymic kinetics of T-cell differentiation and the spleen T-cell level." in: **The Journal of endocrinology**, Vol. 192, Issue 3, pp. 669-82, (2007) (PubMed).

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. Separation of rat thymocytes stained using anti-rat TCR alpha/beta (R73) PE antibody (concentration in sample 0,11 µg/mL, red) from unstained rat thymocytes (black) in flow cytometry analysis (surface staining).