Datasheet for ABIN967475

anti-TCR alpha/beta antibody

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Overview

Quantity:	0.5 mg
Target:	TCR alpha/beta
Reactivity:	Rat
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)), Immunohistochemistry (Zinc-fixed Sections) (IHC (zinc)), Cytotoxicity Test (CyTox)

Product Details

Brand:	BD Pharmingen™
Immunogen:	Rat T blasts and rat erythrocytes
Clone:	R73
Isotype:	IgG1 kappa
Characteristics:	1. Since applications vary, each investigator should titrate the reagent to obtain optimal results. 2. Please refer to us for technical protocols. 3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing. 4. Sodium azide is a reversible inhibitor of oxidative metabolism, therefore, antibody

Product Details

	preparations containing this preservative agent must not be used in cell cultures nor injected into animals. Sodium azide may be removed by washing stained cells or plate-bound antibody or dialyzing soluble antibody in sodium azide-free buffer. Since endotoxin may also affect the results of functional studies, we recommend the NA/LE™ (No Azide/Low Endotoxin) antibody format, if available, for in vitro and in vivo use.
Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

Target Details

Target:	TCR alpha/beta
Alternative Name:	alpha beta TCR (TCR alpha/beta Products)
Background:	The R73 antibody reacts with the alphabeta T-cell Receptor (TCR) found on most peripheral T lymphocytes, intestinal intraepithelial lymphocytes, and thymocytes. It does not react with gammadelta TCR-bearing cells. Cross-linked R73 mAb induces T-cell differentiation and activation. In vivo treatment with mAb R73 can suppress immune function of peripheral alphabeta TCR-expressing T cells, and reduce the severity of experimental autoimmune, transplant rejection, and graft-versus-host responses. This antibody is routinely tested by flow cytometric analysis.

Application Details

Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	0.5 mg/mL
Buffer:	Aqueous buffered solution containing ≤0.09 % 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 undiluted at 4° C.

Product cited in:

Heidecke, Hancock, Westerholt, Sewczik, Jakobs, Zantl, Varzaru, Siegling, Kurrle, Deusch, Volk, Kupiec-Weglinski: "alpha/beta-T cell receptor-directed therapy in rat allograft recipients. Long-term survival of cardiac allografts after pretreatment with R73 mAb is associated with upregulation of Th2-type cytokines." in: **Transplantation**, Vol. 61, Issue 6, pp. 948-56, (1996) (PubMed).

Wang, Qu, Stepkowski, Chou, Kahan et al.: "Beneficial effect of graft perfusion with anti-T cell receptor monoclonal antibodies on survival of small bowel allografts in rat recipients treated with brequinar alone or in combination with ..." in: **Transplantation**, Vol. 61, Issue 3, pp. 458-64, (1996) (PubMed).

Heidecke, Hancock, Jakobs, Zantl, Kurrle, Westerholt, Sewczik, Deusch, Kupiec-Weglinski: " alpha/beta-T cell receptor-directed therapy in rat cardiac allograft recipients. Treatment prior to alloantigen exposure prevents sensitization and abrogates accelerated rejection." in: **Transplantation**, Vol. 59, Issue 1, pp. 78-84, (1995) (PubMed).

Kiely, Thiru, Oliveira: "Inflammatory polyarthritis induced by mercuric chloride in the Brown Norway rat." in: **Laboratory investigation; a journal of technical methods and pathology**, Vol. 73, Issue 2, pp. 284-93, (1995) (PubMed).

Mitnacht, Tacke, Hünig et al.: "Expression of cell interaction molecules by immature rat thymocytes during passage through the CD4+8+ compartment: developmental regulation and induction by T cell receptor engagement of CD2, CD5, ..." in: **European journal of immunology**, Vol. 25, Issue 2, pp. 328-32, (1995) (PubMed).

There are more publications referencing this product on: Product page

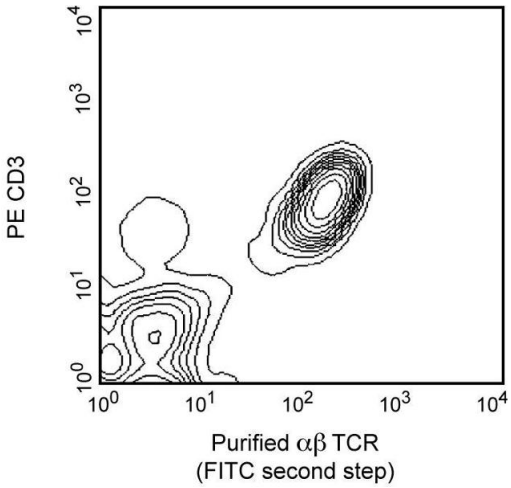

Image 1.

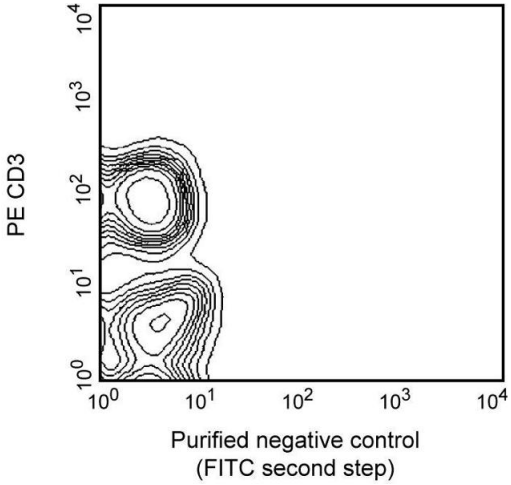

Image 2.

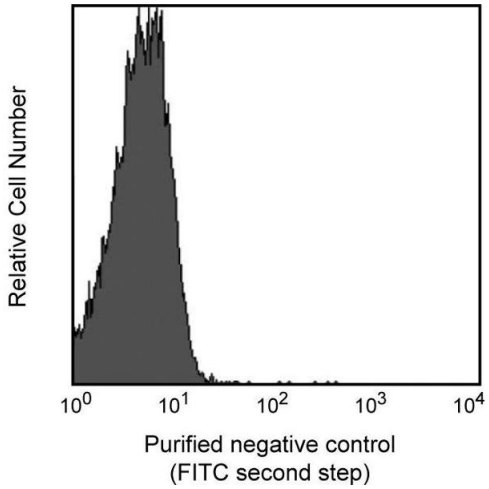

Image 3.

