



Datasheet for ABIN611633
anti-TCR gamma/delta antibody



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Overview

Quantity:	0.1 mg
Target:	TCR gamma/delta
Reactivity:	Rat
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This TCR gamma/delta antibody is un-conjugated
Application:	Flow Cytometry (FACS), Immunoprecipitation (IP), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	TCR alpha/beta-negative CD3-positive rat T cell hybridoma III.89.1.4 line
Clone:	V65
Isotype:	IgG1 kappa
Specificity:	The mouse monoclonal antibody V65 recognizes an extracellular epitope of TCR gamma/delta, the subtype of T cell receptor expressed mainly in epithelial tissues and at the sites of infection.
Cross-Reactivity (Details):	Rat
Purification:	Purified by protein-A affinity chromatography.
Purity:	> 95 % (by SDS-PAGE)

Target Details

Target:	TCR gamma/delta
Alternative Name:	TCR gamma/delta (TCR gamma/delta 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.,TCRG/D

Application Details

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

Handling

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:	De Bernardis, Lucciarini, Boccanera, Amantini, Arancia, Morrone, Mosca, Cassone, Santoni: "Phenotypic and functional characterization of vaginal dendritic cells in a rat model of <i>Candida albicans</i> vaginitis." in: Infection and immunity , Vol. 74, Issue 7, pp. 4282-94, (2006) (PubMed).
	van den Brandt, Kwon, Hünig, McPherson, Reichardt: "Sustained pre-TCR expression in Notch1IC-transgenic rats impairs T cell maturation and selection." in: Journal of immunology

(Baltimore, Md. : 1950), Vol. 174, Issue 12, pp. 7845-52, (2005) ([PubMed](#)).

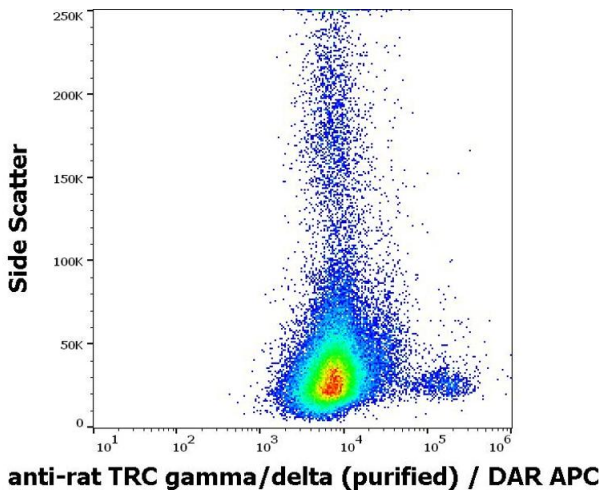
Moghaddami, Cleland, Mayrhofer: "MHC II+ CD45+ cells from synovium-rich tissues of normal rats: phenotype, comparison with macrophage and dendritic cell lineages and differentiation into mature dendritic cells in vitro." in: **International immunology**, Vol. 17, Issue 8, pp. 1103-15, (2005) ([PubMed](#)).

Xystrakis, Dejean, Bernard, Druet, Liblau, Gonzalez-Dunia, Saoudi: "Identification of a novel natural regulatory CD8 T-cell subset and analysis of its mechanism of regulation." in: **Blood**, Vol. 104, Issue 10, pp. 3294-301, (2004) ([PubMed](#)).

Henriksson, Helgeland, Midtvedt, Stierna, Brandtzaeg: "Immune response to Mycoplasma pulmonis in nasal mucosa is modulated by the normal microbiota." in: **American journal of respiratory cell and molecular biology**, Vol. 31, Issue 6, pp. 657-62, (2004) ([PubMed](#)).

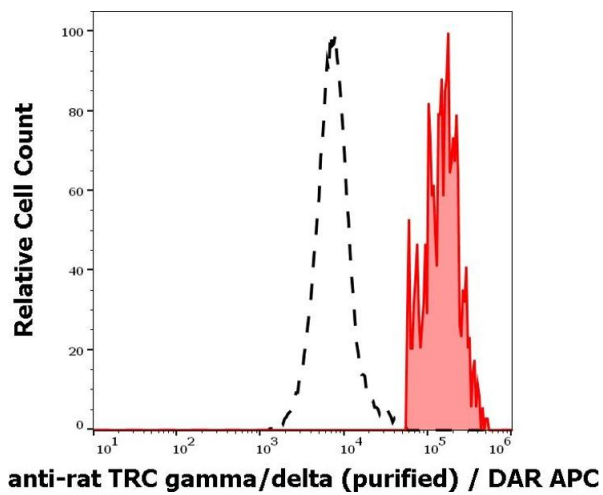
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Images



Flow Cytometry

Image 1. Flow cytometry surface staining pattern of rat splenocytes stained using anti-rat TCR gamma/delta (V65) purified antibody (concentration in sample 0,6 µg/mL, DAM APC).



Flow Cytometry

Image 2. Separation of TCR gamma/delta positive cells (red-filled) from TCR gamma/delta negative cells (black-dashed) in flow cytometry analysis (surface staining) of rat splenocytes stained using anti-rat TCR gamma/delta (V65) purified antibody (concentration in sample 0,6 $\mu\text{g}/\text{mL}$, DAM APC).