Datasheet for ABIN457427

anti-TCR alpha/beta antibody

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Overview

Quantity:	0.1 mg
Target:	TCR alpha/beta
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This TCR alpha/beta antibody is un-conjugated
Application:	Flow Cytometry (FACS)

Product Details

Clone:	IP26
Isotype:	IgG1
Specificity:	The mouse monoclonal antibody IP26 recognizes a monomorphic extracellular determinant of TCR alpha/beta, the dominant subtype of T cell receptor expressed in human peripheral blood.
Cross-Reactivity (Details):	Human
Purification:	Purified by protein-A affinity chromatography.
Purity:	> 95 % (by SDS-PAGE)

Target Details

Target:	TCR alpha/beta
Alternative Name:	TCR alpha/beta (TCR alpha/beta Products)

Target Details

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: 2-4 µg/mL, positive control: human peripheral blood T cells.
Restrictions:	For Research Use only

Handling

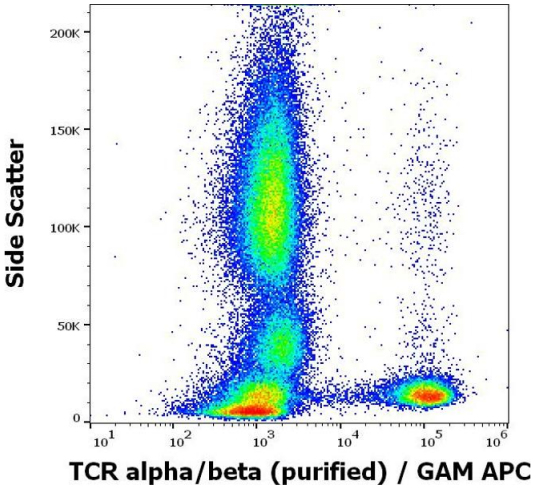
Concentration:	1 mg/mL
Buffer:	Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	**Do not freeze.**
Storage: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

Publications

Product cited in:	Kuttruff, Koch, Kelp, Pawelec, Rammensee, Steinle: "NKp80 defines and stimulates a reactive subset of CD8 T cells." in: **Blood**, Vol. 113, Issue 2, pp. 358-69, (2009) (PubMed). Ortonne, Huet, Gaudez, Marie-Cardine, Schiavon, Bagot, Musette, Bensussan: "Significance of circulating T-cell clones in Sezary syndrome." in: **Blood**, Vol. 107, Issue 10, pp. 4030-8, (2006) (PubMed). Huet, Bagot, Loyaux, Capdevielle, Conraux, Ferrara, Bensussan, Marie-Cardine: "SC5 mAb

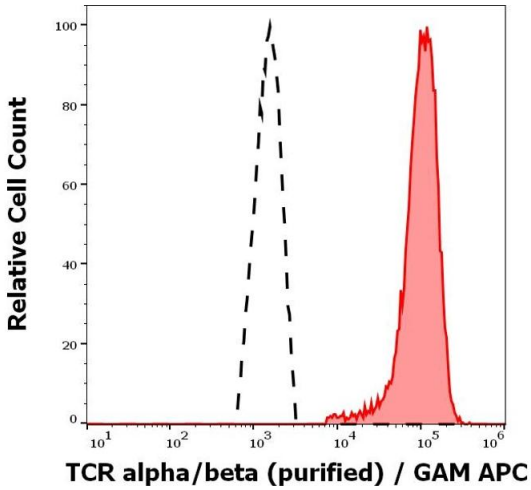
represents a unique tool for the detection of extracellular vimentin as a specific marker of Sezary cells." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 176, Issue 1, pp. 652-9, (2005) (PubMed).

Images



Flow Cytometry

Image 1. Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human TCR alpha/beta (IP26) purified antibody (concentration in sample 2 µg/mL, GAM APC).



Flow Cytometry

Image 2. Separation of human TCR alpha/beta positive lymphocytes (red-filled) from neutrofil granulocytes (black-dashed) in flow cytometry analysis (surface staining) of peripheral whole blood stained using anti-human TCR alpha/beta (IP26) purified antibody (concentration in sample 2 µg/mL, GAM APC).