

Datasheet for ABIN457345

anti-TCR alpha/beta antibody (FITC)[Go to Product page](#)**3** Images**2** Publications

Overview

Quantity:	100 tests
Target:	TCR alpha/beta
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This TCR alpha/beta antibody is conjugated to FITC
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 antibody is conjugated with fluorescein isothiocyanate (FITC) under optimum conditions and 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)

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
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Application Details

Application Notes:	Flow cytometry: The reagent is designed for analysis of human blood cells using 20 µL reagent / 100 µL of whole blood or 10 ⁶ cells in a suspension. The content of a vial (2 ml) is sufficient for 100 tests.
Comment:	The purified antibody is conjugated with Fluorescein isothiocyanate (FITC) under optimum conditions. The reagent is free of unconjugated FITC and adjusted for direct use. No reconstitution is necessary.
Restrictions:	For Research Use only

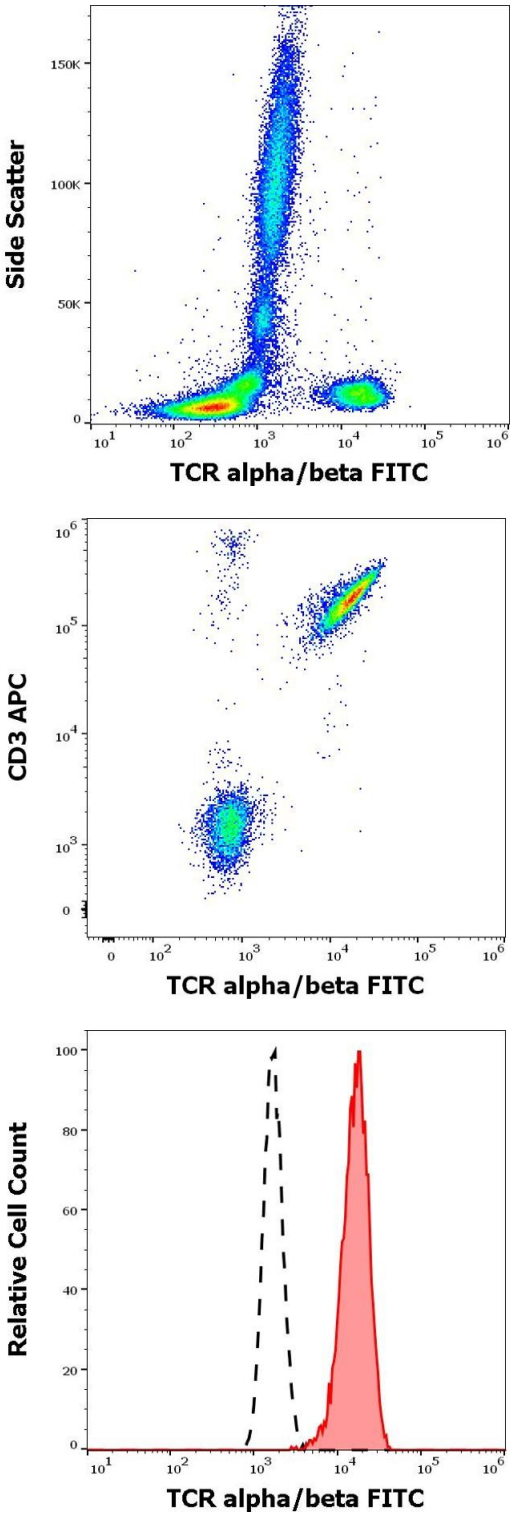
Handling

Reconstitution:	No reconstitution is necessary.
Buffer:	Stabilizing 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. Avoid prolonged exposure to light.
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Protect from prolonged exposure to light. 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).
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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](#)).



Flow Cytometry

Image 1. Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human TCR alpha/beta (IP26) FITC antibody (20 µL reagent / 100 µL of peripheral whole blood).

Flow Cytometry

Image 2. Flow cytometry multicolor surface staining of human lymphocytes stained using anti-human TCR alpha/beta (IP26) FITC antibody (20 µL reagent / 100 µL of peripheral whole blood) and anti-human CD3 (UCHT1) APC antibody (10 µL reagent / 100 µL of peripheral whole blood).

Flow Cytometry

Image 3. Separation of human TCR alpha/beta positive CD3 positive lymphocytes (red-filled) from neutrophil granulocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human TCR alpha/beta (IP26) FITC antibody (20 µL reagent / 100 µL of peripheral whole blood).