



1F-607-T025

Monoclonal Antibody to TCR alpha/beta Fluorescein (FITC) conjugated (25 tests)

Clone:	IP26
Isotype:	Mouse IgG1
Specificity:	The mouse monoclonal antibody IP26 recognizes a monomorphic determinant of TCR alpha/beta, the dominant subtype of T cell receptor expressed in human peripheral blood.
Regulatory Status:	RUO
Species Reactivity:	Human
Preparation:	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.
Storage Buffer:	The reagent is provided in stabilizing phosphate buffered saline (PBS) solution containing 15mM sodium azide.
Storage / Stability:	Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light. Do not use after expiration date stamped on vial label.
Usage:	The reagent is designed for Flow Cytometry 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 (0.5 ml) is sufficient for 25 tests.
Expiration:	See vial label
Lot Number:	See vial label
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.

For laboratory research only, not for drug, diagnostic or other use.

**Antibodies****References:**

- *von Boehmer H: T cell development and selection in the thymus. *Bone Marrow Transplant.* 1992;9 Suppl 1:46-8.
- *Levelt CN, Wang B, Ehrfeld A, Terhorst C, Eichmann K: Regulation of T cell receptor (TCR)-beta locus allelic exclusion and initiation of TCR-alpha locus rearrangement in immature thymocytes by signaling through the CD3 complex. *Eur J Immunol.* 1995 May;25(5):1257-61.
- *Michie AM, Zúñiga-Pflücker JC: Regulation of thymocyte differentiation: pre-TCR signals and beta-selection. *Semin Immunol.* 2002 Oct;14(5):311-23.
- *Croxford AL, Akilli-Ozturk O, Rieux-Laucat F, Förster I, Waisman A, Buch T: MHC-restricted T cell receptor signaling is required for alpha beta TCR replacement of the pre T cell receptor. *Eur J Immunol.* 2008 Feb;38(2):391-9.
- *Huet D, Bagot M, Loyaux D, Capdevielle J, Conraux L, Ferrara P, Bensussan A, Marie-Cardine A: SC5 mAb represents a unique tool for the detection of extracellular vimentin as a specific marker of Sezary cells. *J Immunol.* 2006 Jan 1;176(1):652-9.
- *Ortonne N, Huet D, Gaudez C, Marie-Cardine A, Schiavon V, Bagot M, Musette P, Bensussan A: Significance of circulating T-cell clones in Sezary syndrome. *Blood.* 2006 May 15;107(10):4030-8.
- *Chentouf M, Ghannam S, Bès C, Troadec S, Cérutti M, Chardès T: Recombinant anti-CD4 antibody 13B8.2 blocks membrane-proximal events by excluding the Zap70 molecule and downstream targets SLP-76, PLC gamma 1, and Vav-1 from the CD4-segregated Brij 98 detergent-resistant raft domains. *J Immunol.* 2007 Jul 1;179(1):409-20.
- Sullivan BM, Coscoy L: Downregulation of the T-cell receptor complex and impairment of T-cell activation by human herpesvirus 6 u24 protein. *J Virol.* 2008 Jan;82(2):602-8.
- *Kuttruff S, Koch S, Kelp A, Pawelec G, Rammensee HG, Steinle A: NKp80 defines and stimulates a reactive subset of CD8 T cells. *Blood.* 2009 Jan 8;113(2):358-69.

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