

anti-human TCRab PE-conjugated

PE-conjugated monoclonal antibody IP26 to human TCRab

Cat-No: **21275214**

500 µl

Clone: IP26

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.

Isotype subclass: Mouse IgG1

Form: The purified antibody is conjugated with R-Phycoerythrin (R-PE) under optimum conditions. The reagent is free of unconjugated PE and adjusted for direct use. No reconstitution is necessary.

Physical state: Liquid

Buffer/Additives/Preservative: PBS containing 1% BSA and 0.09% sodium azide (pH 7.2)

Expiration date: The reagent is stable until the expiry date stated on the vial label.

Storage conditions: Store at 4 °C. Do not freeze. Avoid prolonged exposure to light.

Application: Flow Cytometry

References:

*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.

*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.

*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.

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.

Warning: Sodium azide is harmful if swallowed (R22). Keep out of reach of children (S2). Keep away from food, drink and animal feeding stuff (S13). Wear suitable protective clothing (S36). If swallowed, seek medical advice immediately and show this container or label (S46). Contact with acids liberates very toxic gas (R32). Azide compounds should be flushed with large volumes of water during disposal to avoid deposits in lead or copper plumbing where explosive conditions can develop.

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