

**MONOCLONAL ANTIBODY TO  
HUMAN CD3  
clone SPV-T3b**



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<b>Catalog nr</b>	HM2124 (lot number and expiry date are indicated on the label)
<b>Description</b>	CD3 is presented on all resting and activated human T-cells, on T-leukemia cells and a proportion of human thymocytes. CD3 plays an important role in the assembly and expression of the T-cell receptor complex. Furthermore it functions as a signal transducer. SPV-T3b reacts with human CD3 also designated as T3 with a molecular weight of 20-26 kDa. SPV-T3b recognizes also the T3 molecular complex.
<b>Species</b>	Mouse IgG <sub>2a</sub>
<b>Formulation</b>	1 ml (100 µg/ml) 0.2 µm filtered antibody solution in PBS, containing 0.1% bovine serum albumin.
<b>Application</b>	The antibody is mitogenic for T-cells and blocks the cytotoxic reactivity of T-cells. The antibody can be used for flow cytometry and immunohistology on frozen sections. The antibody is not useful for immunohistology on paraffin sections.
<b>Use</b>	For immunohistology and flow cytometry dilutions to be used depend on detection system applied. It is recommended that users test the reagent and determine their own optimal dilutions. The typical starting working dilution is 1:10. For neutralization of biological activity in vitro dilutions have to be made according to the amounts of CD3 to be inactivated.
<b>Storage and stability</b>	Product should be stored at 4°C. Under recommended storage conditions, product is stable for one year.
<b>Precautions</b>	For research use only. Not for use in or on humans or animals or for diagnostics. It is the responsibility of the user to comply with all local/state and Federal rules in the use of this product. Hycult Biotech is not responsible for any patent infringements that might result with the use of or derivation of this product.
<b>References</b>	<ol style="list-style-type: none"><li>1. Spits, H et al; Characterization of monoclonal antibodies against cell surface molecules associated with cytotoxic activity of natural and activated killer cells and cloned CTL lines. <i>Hybridoma</i> 1983, 2: 423</li><li>2. Geisler, C et al; Identification of alpha beta and gamma delta T cell receptor-positive cells. <i>Scand J Immunol</i> 1988, 28: 741</li><li>3. Parsey, M et al; Actin polymerization and pseudopod reorganization accompany anti-CD3-induced growth arrest in Jurkat T cells. <i>J Immunol</i> 1993, 151: 1881</li><li>4. Molina, I et al; T cells of patients with the Wiskott-Aldrich syndrome have a restricted defect in proliferative responses. <i>J Immunol</i> 1993, 151: 4383Lien, E et al; Toll-like receptor 2 functions as a pattern recognition receptor for diverse bacterial products. <i>J Biol Chem</i> 1999, 274: 33419</li></ol>