

**FITC-labeled Antibody to Human CD4**  
**MOUSE MONOCLONAL**

**Catalog Number:** PRP-132ANT  
**Quantity:** 500 micrograms  
**Format:** Lyophilized  
**Host:** Mouse  
**Isotype:** IgG2b  
**Clone:** hCD4  
**Immunogen:** Purified human PBL CD4+ T cells

**Background:** CD4 is a cell-surface glycoprotein found on mature helper T-cells, immature thymocytes, monocytes, and macrophages. Some cytotoxic T-cells express CD4 as well. The T-cell population in normal blood is approximately 65% CD4+. A mature T-cell expresses either CD4 or CD8, but not both. During an early stage of development T-cells have both CD4 and CD8 receptors but are differentiated in the thymus.

**Specificity & Preparation:** Mouse anti-human CD4 is conjugated to FITC and purified by ion exchange chromatography. The protein concentration is 1 mg/ml in PBS after reconstitution.

**Usage:** Reported to be effective as a blocking and staining antibody. Blocks binding of HIV to CD4. For staining, use 10  $\mu$ l/10<sup>6</sup> cells. The titer for blocking T-cell activation should be determined by the investigator.

**Storage:** Reconstitute with H<sub>2</sub>O. Gently spin down material 5-10 seconds in a microfuge before use. Store at 4°C. DO NOT STORE FROZEN. The material may display diminished activity as a result of repeated freezing and thawing.

*To view protocol(s) for this and other products please visit: [www.ATSBio.com/library/protocols](http://www.ATSBio.com/library/protocols)*