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# TECHNICALLY *Speaking*

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## Purified Mouse Anti-Human CD3 Monoclonal Antibody

**CLX04AP**

**LOT:**

**Clone:** MEM-92

**Isotype:** Mouse IgM

**Specificity:** The antibody recognizes epsilon chain of CD3 complex. T cell activation through the antigen receptor (TCR) involves the cytoplasmic tails of the CD3 subunits CD3 gamma, CD3 delta, CD3 epsilon and CD3 zeta. These CD3 subunits are structurally related members of the immunoglobulins super family encoded by closely linked genes on human chromosome 11. The CD3 components have long cytoplasmic tails that associate with cytoplasmic signal transduction molecules. This association is mediated at least in part by a double tyrosine-based motif present in a single copy in the CD3 subunits. CD3 may play a role in TCR-induced growth arrest, cell survival and proliferation. The CD3 antigen is present on 68-82% of normal peripheral blood lymphocytes, 65-85% of thymocytes and Purkinje cells in the cerebellum. It is never expressed on B or NK cells. Decreased percentages of T lymphocytes may be observed in some autoimmune diseases. Gene location: human chromosome 11q23.

**Immunogen:** Human peripheral blood lymphocytes.

**Size:** 0.1mg

**Species Reactivity:** Human

**Application:** **Functional Application**  
The antibody can be used to activate T cells concentration under standard tissue culture conditions. It induces rapid early responses (tyrosine phosphorylation, calcium elevation, Erk activation and expression of activation antigens), but soluble antibody is unable to induce full activation resulting in T cell proliferation.  
**Flow Cytometry**  
**Immunoprecipitation**

Continued Overleaf...

For more information or to place an order please contact...

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**Purity:** > 95% (by SDS-PAGE)

**Purification:** Purified from ascites by thiophilic adsorption-affinity chromatography.

**Concentration:** 1 mg/ml

**Storage Buffer:** Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4

**Storage / Stability:** Store at 2-8°C. Do not use after expiration date stamped on vial label. Do not freeze.

**References:** Leucocyte Typing IV. Knapp W et al. (Eds.), Oxford University Press (1989).

*This product is made available in collaboration with Exbio Praha, a.s.*

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

JV 11/01/05