

**anti-human CD4 - no azide****Cat-No.: H12127NA            0.1 mg****Clone:** MEM-115**Specificity:**

The antibody recognizes an epitope in the D1 domain of CD4 antigen, a transmembrane glycoprotein (59 kDa) of the immunoglobulin supergene family present on subset of T lymphocytes

("helper/inducer" T cells) and also expressed at a lower level on monocytes and granulocytes.

Gene location: human chromosome 12p13.31

HLDA V.; WS CODE CD04.09

**Isotype subclass:** Mouse IgG2a**Immunogen:** Human thymocytes and T lymphocytes.**Form:** Purified from ascites by protein-A affinity chromatography.**Purity:** > 95% (by SDS-PAGE)**Physical state:** Liquid**Buffer/Additives/Preservative:**

PBS sterile, pH 7.4

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

Aliquot and store at -20°C. Avoid freeze/thaw cycles. Should be handled under aseptic conditions.

**Application:**

Immunoprecipitation: excellent

Functional Application: The antibody MEM-115 blocks binding of HIV gp120 to CD4 molecule and it also strongly inhibits CD4-MHC Class II interactions.

Flow Cytometry: Although it has not been tested rigorously, following data suggest that the antibody MEM-115 is a low-affinity antibody: it is binding to T cells increases at elevated temperature; monovalent Fab fragments essentially do not bind to T cells; it is negative in Western blotting even with non-reduced samples of cell lysates.

**References:**

Cinek T. et al., Immunogenetics 41, 110 (1994).

Leucocyte Typing V. Schlossman S. et al. (eds.), Oxford University Press (1995)

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