

## Anti-CD4 [MT310] Standard Size Ab00217-10.0

This chimeric human antibody was made using the variable domain sequences of the original Mouse IgG1 format, for improved compatibility with existing reagents, assays and techniques.

**Isotype and Format:** Human IgG1, Kappa

**Clone Number:** MT310

**Alternative Name(s) of Target:** Leu3/T3; T-cell differentiation antigen; Ly-4; L3T4; T-cell surface antigen T4/Leu-3

**UniProt Accession Number of Target Protein:** P01730

**Published Application(s):** Blocking, IHC-P, inhibition, IP, FC, IF

**Published Species Reactivity:** Human, Rhesus Monkey, Cynomolgus Monkey

**Immunogen:**

**Specificity:** This antibody is specific for the CD4 extracellular domain D1 (binding the HIV-1 gp120-binding site).

**Application Notes:** This antibody strongly inhibits HIV-1 gp120-binding to CD4, which blocks HIV infectivity of CD4<sup>+</sup> T lymphocytes, as well as the binding of MHCII, which results in the block of T-cell activation (possibly leading to anergy induction) (Qin et al., 2001; PMID: n/a). Additionally, antibody binding to CD4 leads to GM-CSF, TNF-α and IL-10 induction. (TNF-α induction only occurs after 20 hours.)

**Antibody First Published in:** Herzog et al. Monoclonal anti-CD4 in arthritis. Lancet. 1987 Dec 19;2(8573):1461-2. [PMID:2892019](#)

**Note on publication:** Describes the use of this antibody in immunosuppression.

## Product Form

**Size:** 200 µg Purified antibody.

**Purification:** Protein A affinity purified

**Supplied In:** PBS with 0.02% Proclin 300.

**Storage Recommendation:** Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C.

**Concentration:** 1 mg/ml.

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.