Anti-CD4 [MT310] Standard Size Ab00217-26.0

This chimeric rhesus macaque 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: Rhesus macaque 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 $CD4^+$ 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: Purified by Immobilized Metal Affinity Chromatography
Supplied In: PBS with 0.02% Proclin 300.
Storage Recommendation: Store at 4ºC for up to 3 months. For longer storage, aliquot and store at -20ºC.
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.

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