Anti-CD4 [OX-68] Standard Size Ab00587-8.4

This antibody was created using our proprietary Fc Silent™ engineered Fc domain containing key point mutations that abrogate binding to Fc gamma receptors.

This chimeric rat antibody was made using the variable domain sequences of the original Mouse IgG2a format, for improved compatibility with existing reagents, assays and techniques.

Isotype and Format: Rat IgG2b, Fc Silent™, Kappa
Clone Number: OX-68
Alternative Name(s) of Target: Leu3/T4; T-cell surface glycoprotein CD4; T-cell surface antigen T4/Leu-3; W3/25 antigen
UniProt Accession Number of Target Protein: P05540
Published Application(s): binding assay, IP, SPR, WB, FC
Published Species Reactivity: Rat
Immunogen: This antibody was prepared by subcutaneously injecting BALB/c mice with a soluble form of rat CD4, consisting of domains 3 and 4. A boost of a mixture of free sCD4 and sCD4 bound to cells was administered intravenously.
Specificity: This antibody is reactive with rat CD4 domain 3 & 4, and is partly competitive with OX-67 & 69.
Application Notes: This antibody binds to rat CD4. Upon challenge with HIV-1, this antibody was able to significantly inhibit viral entry into HeLa cells expressing a mutant of rat CD4 that binds gp120 (SImon, 1997). Similarly, pre-binding of gp120 resulted in a 50% reduction in binding of this antibody, indicating epitope masking. Analogous effects on viral entry and synctium formation are observed with MAbs against human CD4.
Antibody First Published in: Simon et al. Role of CD4 epitopes outside the gp120-binding site during entry of human immunodeficiency virus type 1. J Virol. 1997 Feb;71(2):1476-84. PMID:8995673
Note on publication: Describes the original use of this antibody to elucidate the role of CD4 epitopes outside the gp120-binding site during HIV-1 entry.

Product Form

Size: 200 µg Purified antibody.
Purification: Protein A affinity purified
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.