

## Anti-CD4 [OX-68] Standard Size Ab00587-2.3

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

**Isotype and Format:** Mouse IgG2a, [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 syncytium 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 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.