Anti-CD4 [OX-68] Standard Size Ab00587-23.0

This chimeric rabbit 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: Rabbit IgG, 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.