

Anti-CD4 [5A8] Standard Size Ab02651-1.1

Isotype and Format: Mouse IgG1, Kappa

Clone Number: 5A8

Alternative Name(s) of Target: T-cell surface glycoprotein CD4; T-cell surface antigen T4/Leu-3

UniProt Accession Number of Target Protein: P01730

Published Application(s): RIA, WB, ELISA, IHC

Published Species Reactivity: Human

Immunogen: The original antibody was generated by immunizing Balb/c mice with CHO cells expressing full-length human CD4 on the cell surface.

Specificity: This antibody is specific for nonreduced CD4. Human V1 residues (through amino acid 83) are not required for efficient 5A8 binding. human residues of the rod-like B strand which connects V1 and V2 (AA83 -AA105) significantly influence 5A8 binding. human CD4 V2 residues AA105 -AA131 (strands B and C of V2) are absolutely required for 5A8 binding.

Application Notes: This antibody was used for a radioimmunoassay on human rsCD4 (US5871732). It was tested whether this antibody can block HIV-induced syncytia formation (US5871732) (Burkly et al, 1992; pmid:1380539). Western blot was used on different epitopes of CD4 using this antibody (US5871732). Immunohistochemistry was performed on human tissue with a humanized version of this antibody (Boon et al, 2002; pmid:11893418). ELISA with this antibody was used to detect bound sCD4 (Moore et al, 1992; pmid:1378510).

Antibody First Published in: Burkly et al. Inhibition of HIV infection by a novel CD4 domain 2-specific monoclonal antibody. Dissecting the basis for its inhibitory effect on HIV-induced cell fusion. J Immunol. 1992 Sep 1;149(5):1779-87. [PMID:1380539](#)

Note on publication: A novel anti-CD4 mAb that does not block CD4/gp120 binding, but that does efficiently block both viral infection and cell-cell syncytia formation, and define its contact site as residues in CD4 D2 using both mouse/human CD4 chimeras and CD4 substitution mutants is reported.

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.