

Anti-CD4, Cytoplasmic tail [10C12] Standard Size Ab01465-23.0

This chimeric rabbit 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: Rabbit IgG, Kappa

Clone Number: 10C12

Alternative Name(s) of Target: Leu3/T4; 024; CD4 cytoplasmic tail; T-cell surface glycoprotein CD4; T-cell surface antigen T4/Leu-3

UniProt Accession Number of Target Protein: P01730

Published Application(s): Blocking, WB, ELISA, IF

Published Species Reactivity: Human

Immunogen: This antibody was raised against a multiple antigenic peptide; a tetramer linked through a lysine backbone.

Specificity: This antibody recognises LSEKKTQCPhRFQKTCsPI peptide of human CD4 epitope within amino acids 414 and 433 of the cytoplasmic tail region. CD4 is a membrane glycoprotein of T lymphocytes that interacts with major histocompatibility complex class II antigens and is also a receptor for the human immunodeficiency virus. The cytoplasmic tail region transmits a signal in response to p56-lck. HIV nef is also known to interact with the cytoplasmic tail of CD4.

Application Notes: 10C12 antibody reacts with a poorly studied tail region of human CD4 and might be used to conduct research on the role of this fragment of the protein. Furthermore, this antibody can be used for studies on expression of CD4. One group utilised 10C12 to perform Western blot analysis of CD4 expression in cerebellar granule neurons when researching interleukin-16 induced c-Fos expression (Fenster et al., 2010). This antibody may be also used as an effective blocking agent inhibiting IL-16 (Atanackovic et al., 2012). Finally, 10C12 has also been recommended for studies of the role of selenium metabolism and selenoproteins in diseases, such as infectious diseases (HIV) and cancer (Ware, 2003).

Antibody First Published in: Ware Gene regulation and overlooked coding regions : the case for translation past the 3'-UGA codon in CD4. Ph.D. Thesis. University of Georgia, College of Pharmacy. (2003)

PMID:

Note on publication: This thesis describes the generation and characterisation of TL2.1 antibody.

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.