

Anti-CD4 (aa 439-458) Neutralizing Antibody (V3S-0822-YC714)

Cat. No.: V3S-0822-YC714

Summary

Description	This product is a mouse monoclonal antibody provided by Creative Biolabs. The antibody is capable of recognizing CD4 molecule. It can be used for CD4 detection in Enzyme-Linked Immunosorbent Assay (ELISA), Western Blot (WB), Immunocytochemistry (ICC), Immunofluorescence (IF), Blocking (Block). The antibody is expressed in mammalian cells (293F or CHO) with antibody encoding genes and purified by affinity chromatography. Each lot of this antibody is quality control tested by SDS-PAGE and SEC-HPLC analysis. For highly sensitive assays, we recommend the ultra purified form of the product, which has a lower endotoxin limit than standard antibody, less than 1 EU/mg or even 0.1 EU/mg.
Clonality	Monoclonal
Host Species	Mouse
Target Species	Human
Immunogen	Synthetic peptide: LS EKKTCQCPHR FQKTCSP, corresponding to C terminal amino acids 439-458 of Human CD4.
Epitope	In the residues from 439 to 458.
Isotype	IgG1
Isotype Control	C60052; C51237
Secondary Antibody	C47504; C37557; C41360; C32672; C10001; C52760; C17603; C65740

Property

Conjugation	Unconjugated
Purity	>95%, determined by SDS-PAGE
Purification	Protein G purified
Storage	Store at 4°C within one or two weeks. Store at -20°C for long term. Avoid repeated freeze/thaw cycles. Refer to the COA file for specifics.

Applications

Application	ELISA; WB; ICC; IF; Block
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For lab research use only, not for diagnostic, therapeutic or any *in vivo* human use.

Target

Target	CD4
Alternative Name	CD4; CD4 molecule; CD4mut; T-cell surface glycoprotein CD4; CD4 receptor; CD4 antigen (p55); T-cell surface antigen T4/Leu-3
Gene ID	920
UniProt	P01730
Introduction	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. This gene is expressed not only in T lymphocytes, but also in B cells, macrophages, and granulocytes. It is also expressed in specific regions of the brain. The protein functions to initiate or augment the early phase of T-cell activation, and may function as an important mediator of indirect neuronal damage in infectious and immune-mediated diseases of the central nervous system. Multiple alternatively spliced transcript variants encoding different isoforms have been identified in this gene.
Research Area	Immunology; Stem Cell
Proceedings of R&D	Diseases associated with CD4 include Oka4 Epitope Deficiency and Immunodeficiency 79. Among its related pathways are Notch-mediated HES/HEY network and B Cell Receptor Signaling Pathway (sino). Gene Ontology (GO) annotations related to this gene include protein homodimerization activity and enzyme binding.

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