Anti-CD4 Neutralizing Antibody (V3S-0522-YC7642)

Cat. No.: V3S-0522-YC7642

Summary

Description	This product is a monoclonal antibody derived from Human (*Homo sapiens*), which can specifically recognize CD4 molecule. The antibody is expressed with mammalian cell transient expression system, serum-free and purified by affinity chromatography. The purity and integrity are tested via SDS-PAGE and SEC-HPLC analysis. Given an antigen, additional QC measures are also desired such as affinity testing and binding validation. Specifically, the antibody is provided in multiple formats for in vivo and in vitro assays. The *In vivo* version features greater than 95% purity, ultra-low endotoxin levels (<1 EU/mg or 0.1 EU/mg), and is preservative, stabilizer, and carrier protein-free.
Clonality	Monoclonal
Host Species	Human
Target Species	Human
Immunogen	Human CD4 molecule
Isotype	IgG4
Isotype Control	C37140; C52734
Secondary Antibody	C32400; C75370; C10513; C51635; C45530; C45132

Property

Expression Species	HEK293F or CHO
Conjugation	None
Purity	>95%, determined by SDS-PAGE and/or SEC-HPLC
Endotoxin	<1 EU/mg, determined by LAL method
Purification	Protein A affinity purified
Sterility	0.2 μM filtered
Formulation	PBS, pH 7.4
Preservation	No preservatives
Stabilizer	No stabilizers
Storage	Store at 4^{0}C within a week. For longer storage, aliquot and store at -20^{0}C.

For lab research use only, not for diagnostic, therapeutic or any *in vivo* human use.

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Applications

Application	Block
Application Notes	The antibody is recommended for detection of CD4 by Block assay.

Target

Target	CD4
Alternative Name	CD4; CD4 molecule; CD4mut; T-cell surface glycoprotein CD4; CD4 receptor; CD4 antigen (p 55); T-cell surface antigen T4Leu-3;
Gene ID	920
UniProt	B4DT49
Introduction	CD4 molecule is a membrane glycoprotein of T lymphocytes that interacts with major histoco mpatibility complex class II antigenes 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, an d granulocytes. It is also expressed in specific regions of the brain. The protein functions to in itiate or augment the early phase of T-cell activation, and may function as an important media tor of indirect neuronal damage in infectious and immune-mediated diseases of the central ne rvous system.
Research Area	Immunology; Stem Cell
Proceedings of R&D	Diseases associated with CD4 include Okt4 Epitope Deficiency and Immunodeficiency 79. A mong its related pathways are Notch-mediated HES/HEY network and B Cell Receptor Signa ling Pathway (sino). Gene Ontology (GO) annotations related to this gene include protein ho modimerization activity and enzyme binding.

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