Recombinant Anti-CD4 Antibody (V3S-0522-YC3186)

Cat. No.: V3S-0522-YC3186

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	Recombinant human CD4
Affinity	KD = 0.369 nM, determined by surface plasmon resonance.
Isotype	IgG
Isotype Control	C34555
Secondary Antibody	C32400; C75370; C10513; C51635; C45530

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.

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Applications

Application	ELISA; FC; ADCC; CDC
Application Notes	The antibody is recommended for detection of CD4 by ELISA, FC, ADCC, CDC assays.

Target

Target	CD4
Alternative Name	CD4 Molecule; T-Cell Surface Glycoprotein CD4; T-Cell Surface Antigen T4/Leu-3; CD4 Antigen (P55); CD4 Receptor; CD4 Antigen; CD4mut
Gene ID	920
UniProt	P01730
Introduction	CD4 (CD4 Molecule) is a protein which has protein homodimerization activity and enzyme binding. Diseases associated with CD4 include Okt4 Epitope Deficiency and Pilonidal Sinus. Among its related pathways are G-protein signaling N-RAS regulation pathway and PEDF Induced Signaling.
Research Area	Immunology; Stem Cell
Proceedings of R&D	Diseases associated with CD4 include Okt4 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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