

Human CD4 Alexa Fluor® 647-conjugated Antibody

Monoclonal Mouse IgG_{2B} Clone # 1068606

Catalog Number: FAB114341R

100 µc

DESCRIPTION		
Species Reactivity	Human	
Specificity	Detects human CD4 in direct ELISA.	
Source	Monoclonal Mouse IgG _{2B} Clone # 1068606	
Purification	Protein A or G purified from hybridoma culture supernatant	
Immunogen	Chinese Hamster Ovary cell line, CHO-derived human CD4 Gln26-Lys463 Accession # P08575	
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm	
Formulation	Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide.	
	*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.	

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

Flow Cytometry	Titration recommended for optimal concentration with starting range of 0.1-1 µg/1 million cells. Sample used for this
	experiment was PBMC lymphocytes.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze.

• 12 months from date of receipt, 2 to 8 °C as supplied.

BACKGROUND

CD4 is an approximately 55 kDa type I membrane glycoprotein that is expressed predominantly on most thymocytes and a subset of mature T lymphocytes. In humans, CD4 is also expressed to a lesser extent on monocytes and macrophage related cells. Human CD4 cDNA encodes a 458 amino acid (aa) precursor protein with a 25 aa signal peptide, a 371 aa extracellular region containing four immunoglobulin homology domains, a 24 aa transmembrane domain and a 38 aa cytoplasmic domain. CD4 is a coreceptor required for T cell recognition of antigens that are presented by class II major histocompatibility complexes. CD4 has been shown to be a coreceptor of HIV entry and specifically binds gp120, the external envelope glycoprotein of HIV.

References:

1. Capon, D.I. et al. (1991) Annu. Rev. Immunol. 9:649.

PRODUCT SPECIFIC NOTICES

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Rev. 12/11/2023 Page 1 of 1

