

Datasheet for ABIN5668248

**Recombinant anti-CD4 (Clenoliximab Biosimilar) antibody**[Go to Product page](#)**1** Image

## Overview

Quantity:	200 µg
Target:	CD4 (Clenoliximab Biosimilar)
Reactivity:	Chimpanzee, Human
Host:	Rabbit
Antibody Type:	Recombinant Antibody
Clonality:	Monoclonal
Application:	Blocking Reagent (BR), ELISA, Flow Cytometry (FACS), Immunohistochemistry (IHC), Surface Plasmon Resonance (SPR)

## Product Details

Immunogen:	Domain 1 of human CD4.
Clone:	CE9-1
Isotype:	IgG lambda
Specificity:	The antibody binds to human CD4 with a Kd of 1.0 nM and an ED50 of 0.2 µg/mL.
Characteristics:	OriginalSpeciesName: Human OriginalFormat: IgG4 (primatized)
Purification:	Purified antibody.
Purity:	> 98 % as determined by SDS-PAGE
Endotoxin Level:	Endotoxin is < 1.0 EU/mg as determined by the LAL method

## Target Details

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Target:	CD4 (Clenoliximab Biosimilar)
Target Type:	Biosimilar
Background:	P55, T cell surface antigen T4/Leu-3.
UniProt:	<a href="#">P01730</a>

## Application Details

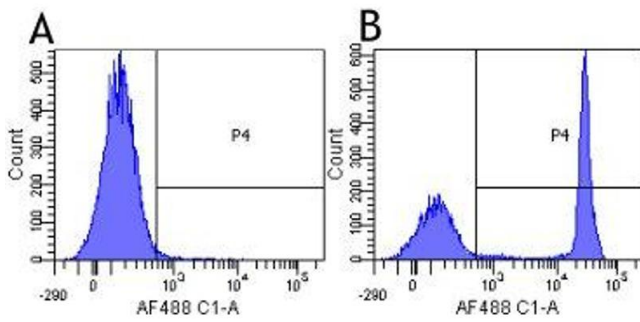
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Application Notes:	The antibody binds specifically to CD4, a molecule which is part of the immunoglobulin superfamily, expressed on the surface of helper T cells. The CD4 Molecule acts as a co-receptor in the activation of T cells, aiding the interaction between the TCR and MHC II of the antigen-presenting cell. The antibody is classified as 'primatized', as the variable regions of the light and heavy chains are obtained from primates, while the lamda light chain and ?4 heavy chain constant domains are human. The antibody was engineered from the primatized IgG1 monoclonal antibody Keliximab by substituting two key residues. The role of the antibody as an immunosuppressor has been tested in vivo, by intravenous administration in chimpanzees and human volunteers. The antibody reached Phase II clinical trials with Biogen-Idec.
Comment:	NOT FOR THERAPEUTIC USE - This is a research-grade biosimilar. This chimeric rabbit antibody was made using the variable domain sequences of the original Human IgG4 (primatized) format, for improved compatibility with existing reagents, assays and techniques.
Restrictions:	For Research Use only

## Handling

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Buffer:	PBS with 0.02 % Proclin 300.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C, -20 °C
Storage Comment:	Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C.



### Flow Cytometry

**Image 1.** Flow-cytometry using the anti-CD4 research biosimilar antibody Clenoliximab (CE9.1, ) Human lymphocytes were stained with an isotype control (panel A) or the rabbit-chimeric version of Clenoliximab ( panel B) at a concentration of 1  $\mu\text{g/ml}$  for 30 mins at RT. After washing, bound antibody was detected using a AF488 conjugated donkey anti-rabbit antibody (ab150073) and cells analysed on a FACSCanto flow-cytometer.