

Product datasheet for **TA385971**

CD4 Human Monoclonal Antibody [Clone ID: CE9.1 (Clenoliximab)]

Product data:

Product Type:	Primary Antibodies
Clone Name:	CE9.1 (Clenoliximab)
Applications:	BI, ELISA, FC, IHC
Reactivity:	Human, Chimpanzee
Host:	Human
Clonality:	Monoclonal
Immunogen:	Domain 1 of human CD4.
Specificity:	The antibody binds to human CD4 with a Kd of 1.0 nM and an ED50 of 0.2 ug/ml.

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 $\gamma 4$ 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-Idex.

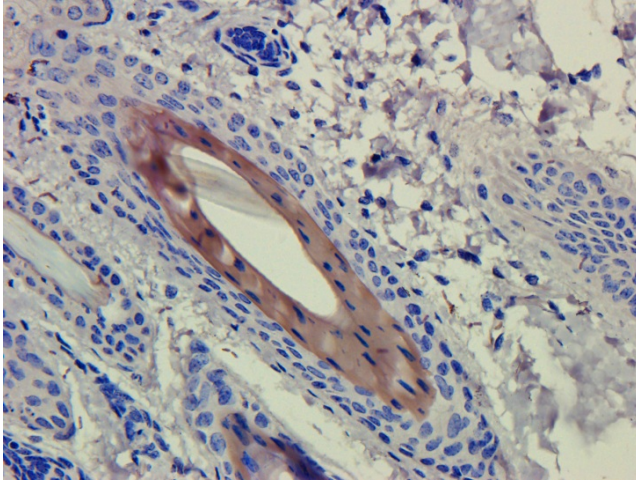
Formulation:	PBS with 0.02% Proclin 300.
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Please store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C. Avoid freeze and thaw cycles.
Stability:	3 years from dispatch.
Gene Name:	CD4 molecule
Database Link:	Entrez Gene 920 Human P01730
Synonyms:	CD4mut



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Note: NOT FOR THERAPEUTIC USE - This is a research-grade biosimilar. This reformatted human antibody was made using the variable domain sequences of the original Human IgG4 (primatized) format, for improved compatibility with existing reagents, assays and techniques.

Product images:



Immunohistochemical staining of guinea pig skin using anti-CD4 antibody (TA385971) CE9.1 (Clenoliximab) Anti-CD4 staining of formaldehyde fixed paraffin embedded guinea pig skin tissue, at 40x magnification. The human IgG4-chimeric version of CE9.1 (Clenoliximab) (TA385971) was used to stain samples at a concentration of 3 $\mu\text{g/ml}$.



Western Blot using anti-CD4 antibody CE9.1 (Clenoliximab) (TA385971) Human thyroid tumour samples were resolved on a 15% SDS PAGE gel and blots probed with the human IgG4-chimeric version of CE9.1 (TA385971) at 1.5 $\mu\text{g/ml}$ before detection using an anti-human IgG4 secondary antibody. Protein was detected by chemiluminescence. The expected unmodified running size for CD4 is 51kDa (arrowhead). Here some non-specific bands can also be seen. TA385971 successfully detected CD4 in human thyroid tissue samples.