

Product Datasheet

CD4 Antibody (CE9.1 (Clenoliximab)) - Chimeric - Azide and BSA Free NBP2-52681-0.2mg

Unit Size: 0.2 mg

Store at 4C for up to 3 months. For longer storage, aliquot and store at -20C.

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NBP2-52681-0.2mg

CD4 Antibody (CE9.1 (Clenoliximab)) - Chimeric - Azide and BSA Free

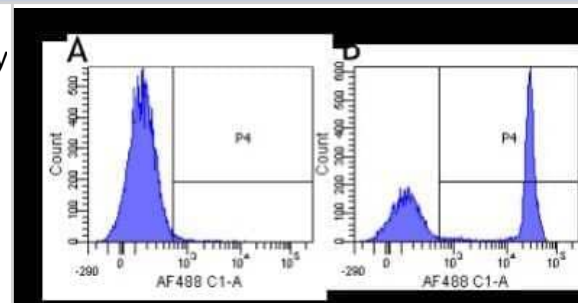
Product Information	
Unit Size	0.2 mg
Concentration	1 mg/ml
Storage	Store at 4C for up to 3 months. For longer storage, aliquot and store at -20C.
Clonality	Monoclonal
Clone	CE9.1 (Clenoliximab)
Preservative	0.02% Proclin 300
Isotype	IgG Lambda
Purity	Protein A purified
Buffer	PBS

Product Description	
Host	Rabbit
Gene ID	920
Gene Symbol	CD4
Species	Human, Chimpanzee
Specificity/Sensitivity	The antibody binds to human CD4 with a Kd of 1.0 nM and an ED50 of 0.2 ug/ml.
Immunogen	Domain 1 of human CD4.

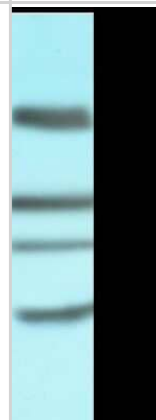
Product Application Details	
Applications	Western Blot, ELISA, Flow Cytometry, Immunohistochemistry, Block/Neutralize, CyTOF-ready, Surface Plasmon Resonance
Recommended Dilutions	Western Blot, Flow Cytometry 1:10 - 1:1000 Blocking/Neutralizing 50 - 200 molar excess, ELISA 1:100 - 1:2000, Immunohistochemistry 1:10 - 1:500, Surface Plasmon Resonance, CyTOF-ready, Block/Neutralize
Application Notes	This antibody is Cytof ready. 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. The antibody binds specifically to CD4, a molecule which is part of the immunoglobulin super-family, 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-Idec.

Images

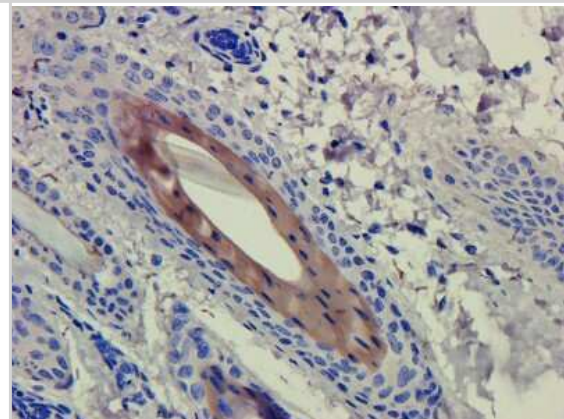
Flow Cytometry: CD4 Antibody (CE9.1 (Clenoliximab)) - Chimeric [NBP2-52681] - Flow-cytometry using the anti-CD4 research biosimilar antibody Clenoliximab (NBP2-52681) Human lymphocytes were stained with an isotype control (panel A) or the rabbit-chimeric version of Clenoliximab (panel B) at a concentration of 1 ug/ml for 30 mins at RT. After washing, bound antibody was detected using a AF488 conjugated donkey anti-rabbit antibody and cells analysed on a FACSCanto flow-cytometer.



Western Blot: CD4 Antibody (CE9.1 (Clenoliximab)) - Chimeric [NBP2-52681] - Human thyroid tumour samples were resolved on a 15% SDS PAGE gel and blots probed with the human IgG4-chimeric version of CE9.1 (NBP2-75910) at 1.5 ug/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. NBP2-75910 successfully detected CD4 in human thyroid tissue samples.



Immunohistochemistry: CD4 Antibody (CE9.1 (Clenoliximab)) - Chimeric [NBP2-52681] - Anti-CD4 staining of formaldehyde fixed paraffin embedded guinea pig skin tissue, at 40x magnification. The human IgG4-chimeric version of CE9.1 (Clenoliximab) (NBP2-75910) was used to stain samples at a concentration of 3 ug/ml.





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Products Related to NBP2-52681-0.2mg

HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP1-19371PEP	CD4 Antibody Blocking Peptide
210-TA-005	TNF-alpha [Unconjugated]

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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