

PRODUCT INFORMATION

# Anti-Tocilizumab antibody

Anti-Tocilizumab is a chimeric rabbit/mouse antibody that specifically targets the human therapeutic antibody Tocilizumab. It consists of rabbit variable domains and mouse constant domains, mainly binding to free Tocilizumab in samples.

Article number	M9264
Product group	Recombinant Antibody
Technique	ELISA

AntiBodyChain  
[www.antibodychain.com](http://www.antibodychain.com)  
[order.handling@antibodychain.com](mailto:order.handling@antibodychain.com)  
+31(0) 43 2010 660  
Wim Duisenbergplantsoen 31  
6221SE  
Maastricht

## Technical information sheet

Plesmanlaan 125  
1066 CX Amsterdam  
P.O. Box 9190  
1006 AD Amsterdam  
The Netherlands

### **Anti-Tocilizumab antibody** **M9264**

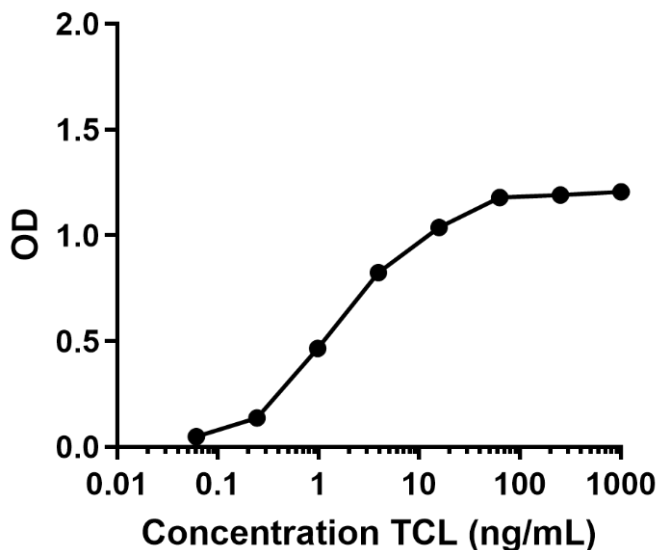
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#### Application

Anti-Tocilizumab is a chimeric rabbit/mouse anti-idiotypic antibody that specifically targets the human therapeutic antibody Tocilizumab. The antibody consists of rabbit variable domains and mouse constant domains. The recombinant antibody binds mainly to free Tocilizumab in samples.

Tocilizumab is a human IgG1/kappa antibody, recognising the interleukin-6 receptor (IL-6R) and inhibiting IL-6 signalling.<sup>(1-4)</sup>

Anti-Tocilizumab antibody has been evaluated in ELISA, other techniques need to be validated by the user. It is recommended to test the antibody by titration of the product in the used technique, using appropriate negative/positive controls.



**Figure 1:** Titration of Tocilizumab to create a pharmacokinetic (PK) curve in bridging ELISA. Anti-Tocilizumab antibody was used as capture (0.25 µg/ml) and detection (0.25 µg/ml) antibody in sandwich assay format as described previously.<sup>(5)</sup> TCL=Tocilizumab

## References

- 1 Sebba A. Tocilizumab: The first interleukin-6-receptor inhibitor. *American Journal of Health-System Pharmacy*. 2008; **65**: 1413–1418. PMID:18653811.
- 2 European Medicines Agency (EMA). Tyenne (tocilizumab). <https://www.ema.europa.eu/en/medicines/human/EPAR/tyenne>. 2023.
- 3 European Medicines Agency (EMA). RoActemra (tocilizumab). <https://www.ema.europa.eu/en/medicines/human/EPAR/roactemra>. 2021.
- 4 European Medicines Agency (EMA). Tofidence (tocilizumab). <https://www.ema.europa.eu/en/medicines/human/EPAR/tofidence>. 2024.
- 5 Großerichter-Wagener C, Kos D, van Leeuwen A, Dijk L, Jeremiasse J, Loeff FC *et al*. Biased anti-idiotypic response in rabbits leads to high-affinity monoclonal antibodies to biologics. *MABs* 2020; **12**. PMID:32887534.