

# Datasheet: HCA253 BATCH NUMBER 159486

Description:	HUMAN ANTI TOCILIZUMAB
Specificity:	TOCILIZUMAB
Other names:	ACTEMRA®, ROACTEMRA®
Format:	Purified
<b>Product Type:</b>	Monoclonal Antibody
Clone:	AbD21338_hlgG1
Isotype:	lgG1
Quantity:	0.1 mg

# **Product Details**

App	licatio	ons
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This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit <a href="www.bio-rad-antibodies.com/protocols">www.bio-rad-antibodies.com/protocols</a>.

	162	No	Not Determined	Suggested Dilution
ELISA				

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

## **Product Form**

Human IgG1 antibody (kappa light chain) selected from the HuCAL® phage display library and expressed in a human cell line. This antibody is supplied as a liquid.

Preparation	Purified IgG prepared by affinity chromatography on Protein A
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.01% Thiomersal
Approx. Protein Concentrations	Antibody concentration 0.5 mg/ml
Immunogen	Tocilizumab

Specificity Human Anti-Tocilizumab Antibody, clone AbD21338 is a paratope specific,

anti-idiotypic antibody that binds to free tocilizumab but not to human Interleukin-6 Receptor (IL-6R) or the drug/IL-6R complex. The antibody can be used to measure the levels of tocilizumab and biosimilar products in bioanalytical and patient monitoring assays.

Clone AbD21338\_hlgG1 is a fully human recombinant monoclonal antibody with lgG1 isotype and is suitable as a surrogate positive control or calibrator (high affinity) in an anti-drug antibody (ADA) assay. Additionally it can be used to develop a pharmacokinetic (PK) bridging assay to measure free drug. This antibody is recommended as the detection antibody, paired with Anti-Tocilizumab Antibody clone AbD21362 (HCA252) in monovalent Fab format as the capture antibody.

Tocilizumab (RoActemra/Actemra) is a humanized IgG1/kappa monoclonal antibody approved for the treatment of moderate to severe rheumatoid arthritis and for the treatment of systemic juvenile idiopathic arthritis. The therapeutic antibody is directed against IL-6R and acts by blocking the binding of IL-6R (both the soluble form, sIL-6R, and the membrane bound form, mIL-6R) to IL-6, thus impeding the pro-inflammatory properties of this cytokine.

#### View a summary of all anti-tocilizumab antibodies

Affinity	The monovalent intrinsic affinity of this antibody was measured as $K_D$ =0.1 nM by real time, label-free molecular interaction analysis on immobilized tocilizuimab.
ELISA	This product may be used in a direct ELISA or as a detection reagent in a bridging ELISA together with <a href="HCA252">HCA252</a> as the capture reagent.  Protocol: <a href="PK">PK bridging ELISA to measure free drug</a> This antibody is fully human and can be used as a reference standard in an ADA assay.  Protocol: <a href="ADA bridging ELISA">ADA bridging ELISA</a>
Storage	This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.  Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.
Guarantee	12 months from date of despatch
Acknowledgements	Sold under license of U.S. Patents 7785859 and 8273688 and corresponding patents. This antibody was developed by Bio-Rad.  Actemra® and RoActemra® are registered trademarks of Hoffman-La Roche and Chugai Pharmaceuticals co., Ltd.
Health And Safety Information	Material Safety Datasheet documentation #10094 available at: <a href="https://www.bio-rad-antibodies.com/SDS/HCA253">https://www.bio-rad-antibodies.com/SDS/HCA253</a> 10094

For in vitro research purposes and for commercial applications for the provision of in vitro testing services to support preclinical and clinical drug development. Any re-sale in any form or any other commercial application needs a written agreement with Bio-Rad.

Regulatory

For research purposes only

Recommended protocols and further information about HuCAL recombinant antibody technology can be found in the HuCAL Antibodies Technical Manual

## Related Products

## **Recommended Useful Reagents**

HISPEC ASSAY DILUENT (BUF049A)

LYNX RAPID HRP ANTIBODY CONJUGATION KIT (LNK002P)

MOUSE ANTI HUMAN IgG (Fc) CH2 DOMAIN:HRP (MCA647P)

**HUMAN ANTI TOCILIZUMAB (HCA252)** 

**HUMAN ANTI TOCILIZUMAB (HCA254)** 

**HUMAN ANTI TOCILIZUMAB (HCA255)** 

**HUMAN ANTI TOCILIZUMAB (HCA256)** 

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To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M386746:210528'

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