

Datasheet: HCA253G BATCH NUMBER 161958

Description:	HUMAN ANTI TOCILIZUMAB
Specificity:	TOCILIZUMAB
Other names:	ACTEMRA®, ROACTEMRA®
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	AbD21338_hlgG1
Isotype:	lgG1
Quantity:	1 mg

Product Details

Applications	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 <u>www.bio-</u> rad-antibodies.com/protocols.						
		Yes	No	Not Determined	Suggested Dilution		
	ELISA						
	Where this product has n necessarily exclude its us a guide only. It is recomm system using appropriate	se in such nended tha	procedur at the use	es. Suggested workin titrates the product f	ig dilutions are given as		
Product Form	Human IgG1 antibody (ka and expressed in a huma		,				
Preparation	Purified IgG prepared by	affinity ch	romatogra	aphy on Protein A			
Buffer Solution	Phosphate buffered saline	е					
Preservative Stabilisers	0.01% Thiomersal						
Approx. Protein Concentrations	Antibody concentration 1.0 mg/ml						
Immunogen	Tocilizumab						
Specificity	Human Anti-Tocilizumal	b Antiboc	ly, clone	AbD21338 is a parate	ope 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_hIgG1 is a fully human recombinant monoclonal antibody with IgG1 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 (<u>HCA252</u>) 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 <u>HCA252</u> as the capture reagent. Protocol: <u>PK bridging ELISA to measure free drug</u> This antibody is fully human and can be used as a reference standard in an ADA assay. Protocol: <u>ADA bridging ELISA</u>
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	This product and/or its use is covered by claims of U.S. patents, and/or pending U.S. and non-U.S. patent applications owned by or under license to Bio-Rad Laboratories, Inc. See bio-rad.com/en-us/trademarks for details. 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: https://www.bio-rad-antibodies.com/SDS/HCA253G 10094

Licensed Use	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	
Technical Advice	Recommended protocols and further information about HuCAL recombinant antibody technology can be found in the <u>HuCAL Antibodies Technical Manual</u>	

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) HUMAN ANTI TOCILIZUMAB (HCA257)

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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 'M391755:211015'

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