

Datasheet: HCA249P BATCH NUMBER INN1703

Description:	HUMAN ANTI NATALIZUMAB:HRP		
Specificity:	NATALIZUMAB		
Other names:	TYSABRI®		
Format:	HRP		
Product Type:	Monoclonal Antibody		
Clone:	AbD21375_hlgG1		
Isotype:	lgG1		
Quantity:	0.1 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-rad-antibodies.com/protocols</u> .						
	Yes No	Not Determined	Suggested Dilution				
	ELISA						
	Where this product has not been tested f necessarily exclude its use in such proce a guide only. It is recommended that the system using appropriate negative/positiv	dures. Suggested workin user titrates the product t	ng dilutions are given as				
Product Form	Human IgG1 antibody selected from the HuCAL® phage display library and expressed in a human cell line. Conjugated to horseradish peroxidase (HRP) - liquid.						
Preparation	Purified IgG prepared by affinity chromat	ography on Protein A					
Buffer Solution	Phosphate buffered saline						
Preservative Stabilisers	0.01% Thiomersal						
Approx. Protein Concentrations	IgG concentration 0.1 mg/ml						
Immunogen	Natalizumab						
Specificity	Human Anti-Natalizumab Antibody, clone AbD21375_hlgG1 is a paratope specific,						

anti-idiotypic antibody that specifically recognizes free natalizumab but not free human alpha-4/beta-1 integrin or the drug/integrin complex. It inhibits the binding of natalizumab to its target and can be used to measure levels of free natalizumab and biosimilar products in bioanalytical and patient monitoring assays.

Clone AbD21375_hIgG1 is a fully human recombinant monoclonal antibody with IgG1 isotype and is suitable as a surrogate positive control or calibrator 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-Natalizumab Antibody clone AbD21375 (<u>HCA248</u>) in monovalent Fab format as the capture antibody.

Natalizumab (Tysabri) is a humanized IgG4/kappa monoclonal antibody approved as a monotherapy for the treatment of relapsing forms of multiple sclerosis and for the treatment of Crohn's disease. It is directed against alpha-4 integrin (CD49d), and binds to alpha-4/beta-1 integrin on the surface of circulating leucocytes, except neutrophils. It is believed to act by blocking the interaction of alpha-4/beta-1 integrin with vascular cell adhesion molecule-1 (VCAM-1), preventing the adherence and transport of inflammatory immune cells across the intestinal lining and blood-brain barrier.

View a summary of all anti-natalizumab antibodies

Affinity	The monovalent intrinsic affinity of this antibody was measured time, label free molecular interaction analysis on immobilized r	- ,
ELISA	This product may be used in a direct ELISA or as a detection together with <u>HCA248</u> as the capture reagent. Protocol: <u>PK bridging ELISA to measure free drug</u>	reagent in a bridging ELISA
References	1. Kashiwagi, N. <i>et al.</i> (2017) Method for measuring anti-drug US20170315118A1	antibody <u>US Patent</u>
Storage	Store at -70°C. Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezer denature the antibody.	ing and thawing as this may
Guarantee	12 months from date of despatch	
Acknowledgements	Sold under license of U.S. Patents 6753136, 7785859 and 827 patents. This antibody was developed by Bio-Rad, Zeppelinstr Germany. Tysabri® is a registered trademark Biogen Idec and	. 4, 82178 Puchheim,
Health And Safety Information	Material Safety Datasheet documentation #10094 available at: https://www.bio-rad-antibodies.com/SDS/HCA249P 10094	
Licensed Use	For in vitro research purposes and for commercial applications	s 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

HUMAN ANTI NATALIZUMAB (HCA248) HUMAN ANTI NATALIZUMAB (HCA250) HISPEC ASSAY DILUENT (BUF049A)

North & South	Tel: +1 800 265 7376	Worldwide	Tel: +44 (0)1865 852 700	Europe	Tel: +49 (0) 89 8090 95 21
America	Fax: +1 919 878 3751		Fax: +44 (0)1865 852 739		Fax: +49 (0) 89 8090 95 50
	Email: antibody_sales_us@bio-ra	id.com	Email: antibody_sales_uk@bio-r	rad.com	Email: antibody_sales_de@bio-rad.com

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M371678:200612'

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