

# Datasheet: HCA294P BATCH NUMBER 168186

Description:	HUMAN ANTI VEDOLIZUMAB:HRP
Specificity:	VEDOLIZUMAB
Other names:	Entyvio
Format:	HRP
Product Type:	Monoclonal Antibody
Clone:	AbD30138_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 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 (lambda light chain) selected from the HuCAL phage display library and expressed in a human cell line. This antibody is conjugated to horseradish peroxidase (HRP) and supplied as liquid.					
Preparation	Purified IgG prepared by affinity chromatography on Protein A					
Source	HKB-11					
Buffer Solution	Phosphate buffered saline					
Preservative Stabilisers	0.0095% MIT					
Approx. Protein Concentrations	Antibody concentration 1	.0 mg/ml				

Immunogen	Vedolizumab
Specificity	Human Anti-Vedolizumab Antibody, clone AbD30138_hlgG1 is a paratope specific, inhibitory anti-idiotypic antibody that specifically recognizes the monoclonal antibody drug vedolizumab. The antibody does not recognize free recombinant human $\alpha 4\beta 7$ integrin or vedolizumab in complex with $\alpha 4\beta 7$ integrin and can be used to measure free vedolizumab levels in serum from patients.
	Clone AbD30138_hIgG1 is a fully human recombinant monoclonal antibody with IgG1 isotype and is suitable as a reference standard in an anti-drug antibody (ADA) assay. A pair of anti-vedolizumab antibodies can be used to develop a pharmacokinetic (PK) bridging assay to measure free drug. This antibody, in full immunoglobulin format, is recommended as the detection antibody paired with clone AbD30136 (HCA292) in monovalent Fab format as the capture antibody.
	Vedolizumab (Entyvio) is a humanized antibody (IgG1/kappa), derived from a murine antibody. It is used for the treatment of both moderate to severe ulcerative colitis and moderate to severe Crohn's disease, primarily in patients who have lost response to, or are intolerant to inhibitors of tumor necrosis factor alpha (TNF $\alpha$ ), such as infliximab, adalimumab. The drug binds specifically to human $\alpha 4\beta7$ integrin, a key mediator of gastrointestinal inflammation expressed on the surfaces of T and B lymphocytes. By selectively inhibiting the binding of $\alpha 4\beta7$ integrin to the mucosal addressin cell adhesion molecule-1 (MAdCAM-1), vedolizumab prevents leukocyte binding to the endothelial surface and extravasation into affected tissue. Specifically inhibiting this pathway alleviates gastrointestinal inflammation without impairing systemic immune responses.
	View a summary of all anti-vedolizumab antibodies
Affinity	The intrinsic affinity of the monovalent form of Human anti Vedolizumab antibody, clone AbD30138_hIgG1 iss K <sub>D</sub> =1.5 nM as measured by real time, label-free molecular interaction analysis on immobilized Vedolizumab.
ELISA	Human anti Vedolizumab antibody, clone AbD30138_hIgG1 can be used in a direct ELISA or as detection antibody for Vedolizumab in a bridging ELISA together with ( <u>HCA292</u> ) as the capture reagent.
	Protocol: PK bridging ELISA to measure free drug.
Storage	This product is shipped frozen. When ready to use, thaw and aliquot the sample as needed. Store aliquots at -70°C, if available, otherwise store at -20°C. It is not recommended to keep aliquots at 4°C for more than one week.
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.

Health And Safety Information	Material Safety Datasheet documentation #20479 available at: https://www.bio-rad-antibodies.com/SDS/HCA294P 20479		
Licensed Use	For <i>in vitro</i> research purposes and for commercial applications for the provision of <i>in vitro</i> 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) HUMAN ANTI VEDOLIZUMAB (HCA292)

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	ad.com	Email: antibody_sales_uk@bio-	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 'M428463:240301'

Printed on 03 May 2024

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