

# Datasheet: HCA316P BATCH NUMBER 151587

Description:	HUMAN ANTI RANIBIZUMAB:HRP		
Specificity:	RANIBIZUMAB		
Other names:	Lucentis		
Format:	HRP		
<b>Product Type:</b>	Monoclonal Antibody		
Clone:	AbD29858_hlgG1		
Isotype:	IgG1		
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 <a href="www.bio-rad-antibodies.com/protocols">www.bio-rad-antibodies.com/protocols</a>.

	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
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.01% Thiomersal
Approx. Protein Concentrations	Antibody concentration 0.1 mg/ml
Immunogen	Ranibizumab

#### **Specificity**

Human Anti-Ranibizumab Antibody, clone AbD29858\_hlgG1 is a non-inhibitory, anti-idiotypic antibody in full immunoglobulin format that specifically recognizes the monoclonal antibody drug ranibizumab and ranibizumab when in complex with recombinant human vascular endothelial growth factor A (VEGF-A). It does not recognize free human VEGF-A or bevacizumab. This antibody can be used to measure levels of free ranibizumab and biosimilars in patient samples.

Clone AbD29858\_hlgG1 in full immunoglobulin format can be used to develop a pharmacokinetic (PK) antigen capture format assay to measure free ranibizumab that has been captured via immobilized VEGF-A.

Ranibizumab (Lucentis) is a humanized Fab fragment antibody (VH3-23/kappa1), originating from the same parental mouse antibody as bevacizumab (Avastin); it has 4 amino acid exchanges in the heavy chain and 1 amino acid exchange in the light chain compared to bevacizumab. Ranibizumab was first approved to treat wet age-related macular degeneration (AMD), a common form of age-related vision loss. It is also approved for the treatment of macular edema following retinal vein occlusion, diabetic macular edema, and diabetic retinopathy. Ranibizumab inhibits angiogenesis by binding to VEGF-A, blocking its interaction with VEGF receptors on the surface of endothelial cells, and thus preventing the subsequent growth of new blood vessels.

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

#### **Affinity**

The monovalent intrinsic affinity of AbD29858\_hlgG1 was measured as K<sub>D</sub>=18 nM by real time, label-free molecular interaction analysis on immobilized VEGF/ranibizumab complex.

#### **ELISA**

Clone AbD29858\_hlgG1 can be used in a direct or indirect ELISA on ranibizumab or as a detection reagent for free ranibizumab captured via immobilized VEGF-A.

Protocol: PK antigen capture ELISA to measure free drug

#### **Storage**

Store at Store at -70°C.

Storage in frost-free freezers is not recommended.

This product should be stored undiluted.

Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

#### Guarantee

12 months from date of despatch

# Acknowledgements

Sold under license of U.S. Patents 6753136, 7785859 and 8273688 and corresponding patents. This antibody was developed by Bio-Rad, Zeppelinstr. 4, 82178 Puchheim, Germany. Lucentis is a trademark of Genentech.

# Health And Safety Information

Material Safety Datasheet documentation #10094 available at: <a href="https://www.bio-rad-antibodies.com/SDS/HCA316P">https://www.bio-rad-antibodies.com/SDS/HCA316P</a> 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 Negative Controls**

RECOMBINANT HUMAN IgG1 LAMBDA ALLOTYPE G1m3 (HCA049)

## **Recommended Useful Reagents**

HISPEC ASSAY DILUENT (BUF049A)
RECOMBINANT HUMAN VEGF-A (PHP293)

 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
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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 'M371774:200612'

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