

## Datasheet: HCA277P

**BATCH NUMBER 172458**

<b>Description:</b>	HUMAN ANTI ETANERCEPT:HRP
<b>Specificity:</b>	ETANERCEPT
<b>Other names:</b>	ENBREL®
<b>Format:</b>	HRP
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	AbD25940_hlgG4_Pro
<b>Isotype:</b>	IgG4
<b>Quantity:</b>	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 [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

	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.

<b>Product Form</b>	Human IgG4 antibody (kappa light chain) selected from the HuCAL phage display library and expressed in a human cell line. Conjugated to horseradish peroxidase (HRP) - liquid
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein A
<b>Source</b>	HKB-11
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.0095% MIT
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 mg/ml
<b>Immunogen</b>	Etanercept

**Specificity** **Human anti etanercept, clone AbD25940\_hlgG4\_Pro** is an antibody that specifically recognizes etanercept as well as the extracellular ligand-binding portion of the 75 kDa (p75) human tumor necrosis factor receptor 2 (TNFR2). Clone AbD25940\_hlgG4\_Pro inhibits the binding of etanercept to its target tumour necrosis factor alpha (TNF $\alpha$ ). The antibody binds to free etanercept but not to etanercept bound to its target TNF $\alpha$ . The antibody binds to an epitope which is also part of the TNF $\alpha$  binding site and can be used to measure the levels of etanercept and biosimilar products (e.g. Etacept, Intacept) in bioanalytical assays.

CloneAbD25940\_hlgG4\_Pro is a fully human recombinant monoclonal antibody with an IgG4 isotype and is suitable as a reference standard in an anti-drug antibody (ADA) assay. Additionally the antibody 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 the antibody clone AbD25939 ([HCA276](#)) in monovalent Fab format, as the capture antibody.

Etanercept (Enbrel<sup>®</sup>) is a dimeric fusion protein consisting of the extracellular ligand-binding portion of the human 75 kDa (p75) TNFR2 linked to the Fc portion of human IgG1. The Fc component of etanercept contains the CH2 domain, the CH3 domain and hinge region, but not the CH1 domain of IgG1. It is used to treat autoimmune diseases by interfering with TNF, acting as a TNF inhibitor. It binds to both TNF $\alpha$  and TNF $\beta$  (Lymphotoxin A).

[View a summary of all anti-etanercept antibodies.](#)

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**Affinity** The intrinsic affinity of the monovalent form of this antibody is  $K_D=2.4$  nM as measured by real time, label-free molecular interaction analysis on immobilized Etanercept.

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**ELISA** This product may be used in a direct ELISA or as a detection antibody in a bridging ELISA.  
Protocol: [PK bridging ELISA to measure free drug.](#)

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**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.

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**Guarantee** 12 months from date of despatch

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**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](http://bio-rad.com/en-us/trademarks) for details.  
Enbrel is a trademark of Immunex Corporation.

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**Health And Safety Information** Material Safety Datasheet documentation #20479 available at: <https://www.bio-rad-antibodies.com/SDS/HCA277P>

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**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.

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**Regulatory** For research purposes only

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**Technical Advice** Recommended protocols and further information about HuCAL recombinant antibody technology can be found in the [HuCAL Antibodies Technical Manual](#).

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## Related Products

### Recommended Useful Reagents

[HUMAN ANTI ETANERCEPT \(HCA277\)](#)

[HUMAN ANTI ETANERCEPT \(HCA276\)](#)

[HISPEC ASSAY DILUENT \(BUF049A\)](#)

**Product inquiries:** [www.bio-rad-antibodies.com/technical-support](http://www.bio-rad-antibodies.com/technical-support)

To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](http://bio-rad-antibodies.com/datasheets)  
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