

## Datasheet: HCA279

<b>Description:</b>	HUMAN ANTI ETANERCEPT
<b>Specificity:</b>	ETANERCEPT
<b>Other names:</b>	ENBREL®
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	AbD26183_hlgG1
<b>Isotype:</b>	IgG1
<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 IgG1 antibody (kappa light chain) selected from the HuCAL® phage display library and expressed in a human cell line.
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein A
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.01% Thiomersal
<b>Approx. Protein Concentrations</b>	IgG concentration 0.5 mg/ml
<b>Immunogen</b>	Etanercept
<b>Specificity</b>	<b>Human anti etanercept, clone AbD26183_hlgG1</b> is an antibody that specifically recognizes etanercept at the region of the fusion of p75 with the Fc portion of human

IgG1. The antibody does not inhibit the binding of etanercept to its target tumor necrosis factor alpha (TNF $\alpha$ ); it binds to both free etanercept and to etanercept bound to its target TNF $\alpha$  and can be used to measure total etanercept very specifically.

The antibody can be used to develop a pharmacokinetic (PK) bridging assay to measure total drug in patient samples. 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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<b>Affinity</b>	The monovalent intrinsic affinity of this antibody was measured as $K_D=14.8$ nM by real time, label-free molecular interaction analysis on immobilized etanercept.
<b>ELISA</b>	This product may be used in a direct or indirect ELISA or as a detection antibody in a bridging ELISA together with <a href="#">HCA276</a> as the capture reagent. Protocol: <a href="#">PK bridging ELISA to measure total drug</a>
<b>Storage</b>	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.
<b>Guarantee</b>	12 months from date of despatch
<b>Acknowledgements</b>	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 <a href="#">bio-rad.com/en-us/trademarks</a> for details. Enbrel is a registered trademark of Immunex Corporation.
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10094 available at: 10094: <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10094.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10094.pdf</a>
<b>Licensed Use</b>	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.
<b>Regulatory</b>	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

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

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

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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](https://bio-rad-antibodies.com/datasheets)

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