

Datasheet: HCA277P

Description:	HUMAN ANTI ETANERCEPT:HRP
Specificity:	ETANERCEPT
Other names:	ENBREL®
Format:	HRP
Product Type:	Monoclonal Antibody
Clone:	AbD25940_hIgG4_Pro
Isotype:	IgG4
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 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.

Product Form	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
Preparation	Purified IgG prepared by affinity chromatography on Protein A
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.01% Thiomersal
Approx. Protein Concentrations	IgG concentration 0.1 mg/ml
Immunogen	Etanercept

Specificity

Human anti etanercept, clone AbD25940_hIgG4_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_hIgG4_Pro inhibits the binding of etanercept to its target tumour necrosis factor alpha (TNFα). The antibody binds to free etanercept but not to etanercept bound to its target TNFα. The antibody binds to an epitope which is also part of the TNFα binding site and can be used to measure the levels of etanercept and biosimilar products (e.g. Etacept, Intacept) in bioanalytical assays.

CloneAbD25940_hIgG4_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[®]) 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 α and TNF β (Lymphotoxin A).

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

Affinity	The monovalent intrinsic affinity of this antibody was measured as $K_D=2.4$ nM by real time, label-free molecular interaction analysis on immobilized etanercept
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
Storage	Store at -70°C. Storage in frost-free freezers is not recommended. This product should be stored undiluted
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. Enbrel is a registered trademark of Immunex Corporation
Health And Safety Information	Material Safety Datasheet documentation #10094 available at: 10094: https://www.bio-rad-antibodies.com/uploads/MSDS/10094.pdf
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 HuCAL Antibodies Technical Manual

Related Products

Recommended Useful Reagents

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

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

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

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