

## Datasheet: HCA206

<b>Description:</b>	HUMAN ANTI ADALIMUMAB (DRUG/TARGET COMPLEX)
<b>Specificity:</b>	ADALIMUMAB (DRUG/TARGET COMPLEX)
<b>Other names:</b>	HUMIRA®
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	AbD18754
<b>Isotype:</b>	HuCAL Fab monovalent
<b>Quantity:</b>	0.1 mg

## Product Details

<b>Applications</b>	<p>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="http://www.bio-rad-antibodies.com/protocols">www.bio-rad-antibodies.com/protocols</a>.</p> <table> <tr> <th></th><th>Yes</th><th>No</th><th>Not Determined</th><th>Suggested Dilution</th></tr> <tr> <td>ELISA</td><td>■</td><td></td><td></td><td></td></tr> </table> <p>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.</p>					Yes	No	Not Determined	Suggested Dilution	ELISA	■			
	Yes	No	Not Determined	Suggested Dilution										
ELISA	■													
<b>Product Form</b>	A monovalent human recombinant Fab (kappa light chain) selected from the HuCAL phage display library, expressed in E. coli. The antibody is tagged with a DYKDDDDK tag and a HIS-tag (HHHHHH) at the C-terminus of the antibody heavy chain. This antibody is supplied as a liquid.													
<b>Preparation</b>	Metal chelate affinity chromatography													
<b>Source</b>	E.coli													
<b>Buffer Solution</b>	Phosphate buffered saline.													
<b>Preservative Stabilisers</b>	0.09% Sodium Azide (NaN <sub>3</sub> )													
<b>Approx. Protein Concentrations</b>	Antibody concentration 0.5 mg/ml													

<b>Immunogen</b>	Adalimumab/TNF $\alpha$ complex
<b>Specificity</b>	<p><b>Human anti Adalimumab, clone AbD18754</b>, is an antibody that specifically recognizes the adalimumab monoclonal antibody while complexed with TNF<math>\alpha</math>. As clone AbD18754 is a complex-specific antibody that recognizes adalimumab bound to its target, TNF<math>\alpha</math>, it does not recognize either free adalimumab or unbound TNF<math>\alpha</math>.</p> <p>Clone AbD18754 can be used in assays to measure adalimumab that has been captured via immobilized TNF<math>\alpha</math>. It can also be used to measure adalimumab, TNF<math>\alpha</math> and biosimilar products using bioanalytical assays.</p> <p>Adalimumab (branded as Humira®) is a fully human monoclonal antibody (IgG1/kappa) approved for the treatment of ankylosing spondylitis, Crohn's disease, psoriasis and several forms of arthritis. The antibody is specific for TNF<math>\alpha</math>, and acts by blocking the activation of TNF receptors by TNF<math>\alpha</math>. This inactivation down-regulates the inflammatory reactions associated with autoimmune diseases.</p> <p><a href="#">View a summary of all anti-adalimumab antibodies</a></p>
<b>Affinity</b>	The intrinsic affinity of the monovalent form of this antibody is K <sub>D</sub> =67 nM as measured by real time, label-free molecular interaction analysis on immobilized Adalimumab/TNF $\alpha$ complex.
<b>ELISA</b>	<p>This product may be used in an indirect ELISA on Adalimumab/TNF<math>\alpha</math> complexes or as detection antibody, when conjugated to HRP, for Adalimumab bound to TNF<math>\alpha</math>.</p> <p>Protocol: <a href="#">PK antigen capture ELISA to measure bound drug exclusively</a>.</p>
<b>References</b>	1. Harth, S. <i>et al.</i> (2019) Generation by phage display and characterization of drug-target complex-specific antibodies for pharmacokinetic analysis of biotherapeutics. <a href="#">MAbs. 11 (1): 178-190.</a>
<b>Storage</b>	<p>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.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.</p>
<b>Guarantee</b>	12 months from date of despatch
<b>Acknowledgements</b>	<p>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="http://bio-rad.com/en-us/trademarks">bio-rad.com/en-us/trademarks</a> for details.</p> <p>Humira® is a registered trademark of Abbott Laboratories.</p> <p>His-tag is a registered trademark of EMD Biosciences.</p>
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10040 available at: <a href="https://www.bio-rad-antibodies.com/SDS/HCA206">https://www.bio-rad-antibodies.com/SDS/HCA206</a>

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<b>Regulatory</b>	For research purposes only
<b>Technical Advice</b>	Recommended protocols and further information about HuCAL recombinant antibody technology can be found in the <a href="#">HuCAL Antibodies Technical Manual</a>

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## Related Products

### Recommended Secondary Antibodies

Goat Anti Synthetic Peptide HISTIDINE TAG (AHP1656...) [Biotin](#)  
Rat Anti Synthetic Peptide DYKDDDDK TAG (MCA4764...) [HRP](#)  
Mouse Anti Synthetic Peptide HISTIDINE TAG (MCA5995...) [HRP](#)  
Rabbit Anti Synthetic Peptide DYKDDDDK TAG (AHP1074...) [HRP](#)  
Mouse Anti Synthetic Peptide HISTIDINE TAG (MCA1396...) [Alk. Phos.](#), [Biotin](#)

### Recommended Useful Reagents

[HISPEC ASSAY DILUENT \(BUF049A\)](#)  
[LYNX RAPID HRP ANTIBODY CONJUGATION KIT \(LNK002P\)](#)  
[RECOMBINANT HUMAN TNF ALPHA \(PHP051\)](#)  
[GOAT ANTI HUMAN IgG F\(ab'\)<sub>2</sub>:HRP \(STAR126P\)](#)

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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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