

## Datasheet: HCA209G

**BATCH NUMBER 170448**

<b>Description:</b>	HUMAN ANTI USTEKINUMAB
<b>Specificity:</b>	USTEKINUMAB
<b>Other names:</b>	Stelara®
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	AbD18334
<b>Isotype:</b>	HuCAL Fab monovalent
<b>Quantity:</b>	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.

### Product Form

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.

### Source

E.coli

### Buffer Solution

Phosphate buffered saline

### Preservative Stabilisers

0.09% Sodium Azide (NaN<sub>3</sub>)

### Approx. Protein Concentrations

Antibody concentration 1.0 mg/ml

### Immunogen

Ustekinumab

<b>Specificity</b>	<p><b>Human Anti-Ustekinumab Antibody, clone AbD18334</b> is a paratope specific, high affinity, anti-idiotypic antibody that specifically recognizes the monoclonal antibody drug ustekinumab and inhibits binding to its target. The antibody can be used to measure the level of free ustekinumab and biosimilar products in bioanalytical and patient monitoring assays.</p> <p>A pair of anti-ustekinumab antibodies can be used to develop a pharmacokinetic (PK) bridging assay to measure free drug. This antibody, in monovalent Fab format, is recommended as a capture antibody, paired with an HRP conjugated Anti-ustekinumab Antibody in full immunoglobulin format, clone AbD17827_hIgG1 (<a href="#">HCA210</a>) as the detection antibody.</p> <p>Ustekinumab (Stelara) is a fully human monoclonal antibody drug (IgG1/kappa) that has been approved in US, Canada, and Europe for the treatment of plaque psoriasis and psoriatic arthritis. The FDA approved the medication for the treatment of moderate-severe Crohn's disease in 2016. The drug blocks interleukin IL-12 and IL-23 by binding with high affinity and specificity to the p40 subunit, preventing the binding of these two cytokines to T-lymphocytes, and thereby disrupting the proinflammatory pathway.</p> <p><a href="#">View a summary of all anti-ustekinumab antibodies</a></p>
<b>Affinity</b>	<p>The monovalent intrinsic affinity of AbD18334 is <math>K_D = 0.4</math> nM as measured by real time, label free molecular interaction analysis on immobilized Ustekinumab.</p>
<b>ELISA</b>	<p>This product may be used in an indirect ELISA or as a capture antibody in a sandwich ELISA together with <a href="#">HCA210P</a> as the detection reagent.</p> <p>Protocol: <a href="#">PK bridging ELISA to measure free drug</a>.</p>
<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>	<p>12 months from date of despatch</p>
<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>His-tag is a trademark of EMD Biosciences.</p>
<b>Health And Safety Information</b>	<p>Material Safety Datasheet documentation #10040 available at: <a href="https://www.bio-rad-antibodies.com/SDS/HCA209G">https://www.bio-rad-antibodies.com/SDS/HCA209G</a></p>
<b>Licensed Use</b>	<p>For <i>in vitro</i> research purposes and for commercial applications for the provision of <i>in vitro</i> testing services to support preclinical and clinical drug development. Any re-sale in any</p>

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 Secondary Antibodies

Rat Anti Synthetic Peptide DYKDDDDK TAG (MCA4764...) [HRP](#)

Mouse Anti Synthetic Peptide HISTIDINE TAG (MCA1396...) [Alk. Phos.](#), [Biotin](#)

Mouse Anti Synthetic Peptide HISTIDINE TAG (MCA5995...) [HRP](#)

**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)  
'M430171:240503'

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