

## Datasheet: HCA209G

**BATCH NUMBER 154169**

<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.

### Buffer Solution

Phosphate buffered saline

### Preservative Stabilisers

0.01% Thiomersal

### Approx. Protein Concentrations

Antibody concentration 1.0 mg/ml

### Immunogen

Ustekinumab

### Specificity

**Human Anti-Ustekinumab Antibody, clone AbD18334** 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.

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 ([HCA210](#)) as the detection antibody.

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.

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

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<b>Affinity</b>	The monovalent intrinsic affinity of AbD18334 was measured as $KD = 0.4$ nM by real time, label free molecular interaction analysis on immobilized Ustekinumab
<b>ELISA</b>	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. Protocol: <a href="#">PK bridging ELISA to measure free drug</a>
<b>Storage</b>	Store at +4°C or at -20°C if preferred. Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.
<b>Guarantee</b>	12 months from date of despatch
<b>Acknowledgements</b>	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. His-tag is a registered trademark of EMD Biosciences.
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10094 available at: <a href="https://www.bio-rad-antibodies.com/SDS/HCA209G10094">https://www.bio-rad-antibodies.com/SDS/HCA209G10094</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.

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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 (MCA5995...) [HRP](#)

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

**North & South** Tel: +1 800 265 7376

**America** Fax: +1 919 878 3751

Email: [antibody\\_sales\\_us@bio-rad.com](mailto:antibody_sales_us@bio-rad.com)

**Worldwide**

Tel: +44 (0)1865 852 700

Fax: +44 (0)1865 852 739

Email: [antibody\\_sales\\_uk@bio-rad.com](mailto:antibody_sales_uk@bio-rad.com)

**Europe**

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

Email: [antibody\\_sales\\_de@bio-rad.com](mailto:antibody_sales_de@bio-rad.com)

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)

'M371627:200612'

**Printed on 29 Aug 2024**

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