

## Datasheet: HCA210G

**BATCH NUMBER 161277**

|                      |                        |
|----------------------|------------------------|
| <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>        | AbD17827_hlgG1         |
| <b>Isotype:</b>      | IgG1                   |
| <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.

|                                       |   |
|---------------------------------------|---|
| <b>Product Form</b>                   | Human IgG1 antibody (kappa light chain) selected from the HuCAL® phage display library and expressed in a human cell line. This antibody is supplied as a liquid. |
| <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 1.0 mg/ml   |
| <b>Immunogen</b>                      | Ustekinumab   |
| <b>Specificity</b>                    | <b>Human Anti-Ustekinumab Antibody, clone AbD17827_hlgG1</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 levels of ustekinumab and biosimilar products in bioanalytical assays.

Clone AbD17827\_hlgG1 is a fully human recombinant monoclonal antibody with IgG1 isotype and is suitable as a surrogate positive control or calibrator in an anti-drug antibody (ADA) assay. Additionally it can be used to develop a pharmacokinetic (PK) bridging assay to measure free drug. This antibody is recommended as the detection antibody, paired with an anti-ustekinumab antibody in monovalent Fab format as the capture antibody, clone AbD17829 ([HCA208](#)) or clone AbD18334 ([HCA209](#)).

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 this antibody was measured as $K_D=0.2$ nM by real time, label-free molecular interaction analysis on immobilized ustekinumab.  |
| <b>ELISA</b>                         | This product may be used in a direct ELISA or as a detection antibody, in its HRP conjugated format, in a bridging ELISA together with AbD17829 ( <a href="#">HCA208</a> ) or AbD18334 ( <a href="#">HCA209</a> ) as the capture reagent.<br>Protocol: <a href="#">PK bridging ELISA to measure free drug</a><br>Protocol: <a href="#">ADA bridging ELISA</a>                                |
| <b>References</b>                    | 1. Kashiwagi, N. <i>et al.</i> (2017) Method for measuring anti-drug antibody <a href="#">US Patent Application US20170315118A1</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.<br><br>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="http://bio-rad.com/en-us/trademarks">bio-rad.com/en-us/trademarks</a> for details.   |
| <b>Health And Safety Information</b> | Material Safety Datasheet documentation #10094 available at:<br>10094: <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10094.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10094.pdf</a>   |

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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 Useful Reagents

[LYNX RAPID HRP ANTIBODY CONJUGATION KIT \(LNK002P\)](#)

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

[HUMAN ANTI USTEKINUMAB \(HCA208\)](#)

[HUMAN ANTI USTEKINUMAB \(HCA209\)](#)

**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)

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