

Datasheet: HCA208

BATCH NUMBER 157800

Description:	HUMAN ANTI USTEKINUMAB
Specificity:	USTEKINUMAB
Other names:	Stelara®
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	AbD17829
Isotype:	HuCAL Fab monovalent
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	A monovalent human recombinant Fab (lambda light chain) selected from the HuCAL® phage display library, expressed in <i>E. coli</i> . The antibody is tagged with a V5 tag and a double extended Strep-tag (SAWSHPQFEKGGGSGGGSGGSAWSHPQFEK).
Preparation	StrepTactin affinity chromatography
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.01% Thiomersal
Approx. Protein Concentrations	Antibody concentration 0.5 mg/ml
Immunogen	Ustekinumab

Specificity

Human Anti-Ustekinumab Antibody, clone AbD17829 is a paratope specific, 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](#)

Affinity

The monovalent intrinsic affinity of AbD17829 was measured as $KD = 2.8 \text{ nM}$ by real time, label free molecular interaction analysis on immobilized ustekinumab

ELISA

This product may be used as a capture antibody in a sandwich ELISA together with [HCA210P](#) as the detection reagent.

Protocol: [PK bridging ELISA to measure free drug](#)

Storage

Store at $+4^{\circ}\text{C}$ 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.

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.

Health And Safety Information

Material Safety Datasheet documentation #10094 available at: <https://www.bio-rad-antibodies.com/SDS/HCA208>
10094

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 Secondary Antibodies

Mouse Anti Synthetic Peptide STREP-TAG CLASSIC (MCA2489...) [HRP](#)

Mouse Anti Human IgG (Fc) (CH2 DOMAIN) (MCA647...) [HRP](#)

Mouse Anti Viral V5-TAG (MCA1360...) [Biotin](#), [HRP](#)

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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

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