Datasheet: HCA211

<table>
<thead>
<tr>
<th>Description:</th>
<th>HUMAN ANTI USTEKINUMAB</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specificity:</td>
<td>USTEKINUMAB</td>
</tr>
<tr>
<td>Other names:</td>
<td>Stelara®</td>
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<tr>
<td>Format:</td>
<td>Purified</td>
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<tr>
<td>Product Type:</td>
<td>Monoclonal Antibody</td>
</tr>
<tr>
<td>Clone:</td>
<td>17829-hlgG1</td>
</tr>
<tr>
<td>Isotype:</td>
<td>IgG1</td>
</tr>
<tr>
<td>Quantity:</td>
<td>0.1 mg</td>
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</table>

**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).

<table>
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<tr>
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<th>Yes</th>
<th>No</th>
<th>Not Determined</th>
<th>Suggested Dilution</th>
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<tbody>
<tr>
<td>ELISA</td>
<td></td>
<td></td>
<td></td>
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</table>

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**

Human IgG1 antibody selected from the HuCAL® phage display library and expressed in a human cell line. This antibody is supplied as a liquid.

**Preparation**

Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant

**Buffer Solution**

Phosphate buffered saline.

**Preservative Stabilisers**

0.01% Thiomersal

**Approx. Protein Concentrations**

Antibody concentration 0.5 mg/ml.

**Immunogen**

Ustekinumab.

**Specificity**

Ustekinumab (branded as Stelara®) is a fully human monoclonal antibody drug (IgG1/kappa) that has been approved for treatment of moderate to severe psoriasis. Ustekinumab is also being investigated for the treatment of psoriatic arthritis, for multiple sclerosis and sarcoidosis. Studies indicate that it may also have potential for treating severe Crohns disease. Ustekinumab is directed against the p40 subunit of interleukin-12 and interleukin-23 and acts by blocking the binding of these two cytokines to, and preventing activation of, T-lymphocytes.

Human anti Ustekinumab antibody, clone 17829-hlgG is an anti-idiotypic antibody that
specifically recognises the Ustekinumab monoclonal antibody and inhibits the binding of Ustekinumab to its target. It can be used to measure Ustekinumab levels in serum from patients.

The monovalent intrinsic affinity of this antibody was measured as $K_D=0.28 \text{ nM}$ by real time, label-free molecular interaction analysis using an Attana A200 instrument on immobilized Ustekinumab.

For our full range of Ustekinumab antibodies, please visit our Ustekinumab website.

**ELISA**

This product may be used in an indirect ELISA or as a detection antibody when conjugated to HRP in a bridging ELISA together with AbD18334 (HCA202) as the capture reagent. Conjugation of this antibody to HRP can be undertaken using a Lynx Rapid HRP conjugation kit, these kits may be purchased from Bio-Rad.

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

Protocol: [ADA bridging ELISA](#)

**Storage**

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.

**Shelf Life**

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**


**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 Useful Reagents**

[LYNX RAPID HRP ANTIBODY CONJUGATION KIT (LNK001P)](#)
[LYNX RAPID HRP ANTIBODY CONJUGATION KIT (LNK002P)](#)
[LYNX RAPID HRP ANTIBODY CONJUGATION KIT (LNK003P)](#)
[LYNX RAPID HRP ANTIBODY CONJUGATION KIT (LNK004P)](#)
[LYNX RAPID HRP ANTIBODY CONJUGATION KIT (LNK005P)](#)
[LYNX RAPID HRP ANTIBODY CONJUGATION KIT (LNK006P)](#)
[LYNX RAPID HRP ANTIBODY CONJUGATION KIT (LNK001P)](#)
[LYNX RAPID HRP ANTIBODY CONJUGATION KIT (LNK002P)](#)