

## Datasheet: HCA139A

|                      |                                     |
|----------------------|-------------------------------------|
| <b>Description:</b>  | HUMAN ANTI CHICKEN HEN EGG LYSOZYME |
| <b>Specificity:</b>  | HEN EGG LYSOZYME                    |
| <b>Other names:</b>  | HEL                                 |
| <b>Format:</b>       | Purified                            |
| <b>Product Type:</b> | Monoclonal Antibody                 |
| <b>Clone:</b>        | AbD11397                            |
| <b>Isotype:</b>      | HuCAL Fab monovalent                |
| <b>Quantity:</b>     | 50 µg                               |

## 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 |
|----------------------------|-----|----|----------------|--------------------|
| Flow Cytometry             |     |    | ▪              |                    |
| Immunohistology - Frozen   |     |    | ▪              |                    |
| Immunohistology - Paraffin |     |    | ▪              |                    |
| ELISA                      |     |    | ▪              |                    |
| Immunoprecipitation        |     |    | ▪              |                    |
| Western Blotting           | ▪   |    |                | 1ug/ml - 0.1µg/ml  |
| Functional Assays          |     |    | ▪              |                    |

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>Target Species</b>           | Chicken  |
| <b>Species Cross Reactivity</b> | Does not react with:Human  |
| <b>Product Form</b>             | 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 (GSGGAPGKPIPPLLGLDSTDAP) and a his-tag (HHHHHH) at the C-terminus of the antibody heavy chain. This antibody is supplied liquid. |
| <b>Preparation</b>              | Metal chelate affinity chromatography  |

|                                       |   |
|---------------------------------------|---|
| <b>Buffer Solution</b>                | Phosphate buffered saline   |
| <b>Preservative Stabilisers</b>       | 0.09% Sodium Azide (NaN <sub>3</sub> )  |
| <b>Approx. Protein Concentrations</b> | Total protein concentration 0.5mg/ml  |
| <b>Immunogen</b>                      | Lysozyme from chicken egg white.  |
| <b>External Database Links</b>        | <p><b>UniProt:</b><br/> <a href="#">P00698</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b><br/> <a href="#">396218</a>    LYZ    <a href="#">Related reagents</a></p>  |
| <b>RRID</b>                           | AB_10612252   |
| <b>Specificity</b>                    | <p><b>Human anti Chicken Hen Egg Lysozyme, clone AbD11397</b>, specifically recognises Hen Egg Lysozyme (HEL), known also as muramidase or N-acetylmuramide glycanhydrolase, a 14kDa enzymic protein involved in the destruction of bacteria.</p> <p>Lysozyme damages bacterial cell walls by catalyzing hydrolysis of 1,4-beta-linkages between N-acetylmuramic acid and N-acetyl-D-glucosamine residues in a peptidoglycan and between N-acetyl-D-glucosamine residues in chitodextrins.</p> <p>Lysozyme is abundant in a number of secretions, such as tears, saliva, human milk and mucus. It is also present in cytoplasmic granules of PMN's and high concentrations of lysozyme are present in egg white. C-type lysozymes are closely related to alpha-lactalbumin in sequence and structure making them part of the same family.</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>                      | 12 months from date of despatch   |
| <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 registered trademark of EMD Biosciences.</p>  |
| <b>Health And Safety Information</b>  | <p>Material Safety Datasheet documentation #10040 available at:<br/> <a href="https://www.bio-rad-antibodies.com/SDS/HCA139A">https://www.bio-rad-antibodies.com/SDS/HCA139A</a><br/> 10040</p>   |

---

**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

Goat Anti Human IgG F(ab')<sub>2</sub> (0500-0099...) [HRP](#)

Mouse Anti Synthetic Peptide HISTIDINE TAG (MCA1396...) [ALEXA FLUOR® 488](#), [ALEXA FLUOR® 647](#), [Alk. Phos.](#), [Biotin](#), [FITC](#)

**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)

'M428294:240301'

**Printed on 01 Mar 2024**

---

© 2024 Bio-Rad Laboratories Inc | [Legal](#) | [Imprint](#)