

## Datasheet: HCA086

**BATCH NUMBER 147913**

|                      |                       |
|----------------------|-----------------------|
| <b>Description:</b>  | HUMAN ANTI HUMAN CD81 |
| <b>Specificity:</b>  | CD81                  |
| <b>Other names:</b>  | TAPA-1                |
| <b>Format:</b>       | Purified              |
| <b>Product Type:</b> | Monoclonal Antibody   |
| <b>Clone:</b>        | AbD06083              |
| <b>Isotype:</b>      | HuCAL Fab bivalent    |
| <b>Quantity:</b>     | 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](http://www.bio-rad-antibodies.com/protocols).

|                            | Yes | No | Not Determined | Suggested Dilution |
|----------------------------|-----|----|----------------|--------------------|
| Flow Cytometry             | ■   |    |                | Neat - 1/10        |
| Immunohistology - Frozen   |     |    | ■              |                    |
| Immunohistology - Paraffin |     |    | ■              |                    |
| ELISA                      | ■   |    |                |                    |
| Immunoprecipitation        |     |    | ■              |                    |
| Western Blotting           |     |    | ■              |                    |
| Immunofluorescence         |     | ■  |                |                    |

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>  | Human   |
| <b>Product Form</b>    | A bivalent human recombinant Fab selected from the HuCAL® GOLD phage display library, expressed in <i>E. coli</i> . This Fab fragment is dimerized via a helix-turn-helix motif. The antibody is tagged with a myc-tag (EQKLISEEDL) 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>       | 0.01% Thiomersal   |
| <b>Approx. Protein Concentrations</b> | Ig concentration 0.5 mg/ml   |
| <b>Immunogen</b>                      | Recombinant human CD81   |
| <b>External Database Links</b>        | <p><b>UniProt:</b><br/> <a href="#">P60033</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b><br/> <a href="#">975</a>    CD81    <a href="#">Related reagents</a></p>   |
| <b>Synonyms</b>                       | TAPA1, TSPAN28   |
| <b>RRID</b>                           | AB_1510120   |
| <b>Specificity</b>                    | <p><b>Human anti Human CD81 antibody, clone AbD06083</b> recognizes human CD81, which is a 26 kDa member of the TM4SF tetraspanin family. In humans, CD81 is widely expressed on most tissues with T-cells having the highest level of expression, followed by monocytes and B-cells. Levels of CD81 expression are increased after activation.</p> <p>CD81 has the ability to interact with a wide range of proteins and plays an important role in a variety of leucocyte functions including activation, proliferation and differentiation. In recent studies, the CD81 molecule has been identified as the putative receptor for the hepatitis C virus (HCV) envelope E2 glycoprotein and is vital for HCV entry into hepatic cells.</p> |
| <b>Flow Cytometry</b>                 | Use 10ul of the suggested working dilution to label $1 \times 10^6$ cells in 100ul   |
| <b>Storage</b>                        | <p>Store at +4°C or at -20°C if preferred.</p> <p>Storage in frost-free freezers is not recommended.</p> <p>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.</p>   |
| <b>Guarantee</b>                      | 12 months from date of despatch  |
| <b>Acknowledgements</b>               | <p>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.</p> <p>His-tag is a registered trademark of EMD Biosciences.</p>  |
| <b>Health And Safety Information</b>  | <p>Material Safety Datasheet documentation #10094 available at:<br/> <a href="https://www.bio-rad-antibodies.com/SDS/HCA086">https://www.bio-rad-antibodies.com/SDS/HCA086</a><br/> 10094</p>  |

|                         |   |
|-------------------------|---|
| <b>Licensed Use</b>     | For in vitro research purposes only, unless otherwise specified in writing by Bio-Rad.  |
| <b>Regulatory</b>       | For research purposes only  |
| <b>Technical Advice</b> | Recommended protocols and further information about HuCAL recombinant antibody technology can be found in the <a href="#">HuCAL Antibodies Technical Manual</a> |

## Related Products

### Recommended Secondary Antibodies

Mouse Anti Synthetic Peptide HISTIDINE TAG (MCA5995...) [HRP](#)

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

Mouse Anti Human C-MYC (MCA2200...) [ALEXA FLUOR® 488](#), [ALEXA FLUOR® 647](#), [Biotin](#), [FITC](#), [HRP](#)

|                                  |   |                  |   |               |   |
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| <b>North &amp; South America</b> | Tel: +1 800 265 7376<br>Fax: +1 919 878 3751<br>Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a> | <b>Worldwide</b> | Tel: +44 (0)1865 852 700<br>Fax: +44 (0)1865 852 739<br>Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a> | <b>Europe</b> | Tel: +49 (0) 89 8090 95 21<br>Fax: +49 (0) 89 8090 95 50<br>Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a> |
|----------------------------------|---|------------------|---|---------------|---|

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)  
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