

## Datasheet: HCA087

<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>	AbD06084
<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 - 1/25
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA	▪			
Immunoprecipitation			▪	
Western Blotting			▪	

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.

### Target Species

Human

### Product Form

A bivalent human recombinant Fab selected from the HuCAL® GOLD phage display library, expressed in *E. coli*. 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 as liquid.

### Preparation

Metal chelate affinity chromatography

### Buffer Solution

Phosphate buffered saline

### Preservative

0.01% Thiomersal

## Stabilisers

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**Approx. Protein Concentrations**      Antibody concentration 0.5 mg/ml

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**Immunogen**      Recombinant human CD81.

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## External Database Links

**UniProt:**

[P60033](#)      [Related reagents](#)

**Entrez Gene:**

[975](#)      CD81      [Related reagents](#)

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**Synonyms**      TAPA1, TSPAN28

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**RRID**      AB\_1510123

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## Specificity

**Human anti Human CD81, clone AbD06084** recognizes human CD81, 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.

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.

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**Flow Cytometry**      Use 10ul of the suggested working dilution to label  $1 \times 10^6$  cells in 100ul

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**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.

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**Guarantee**      12 months from date of despatch

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**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.  
His-tag is a registered trademark of EMD Biosciences.

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**Health And Safety Information**      Material Safety Datasheet documentation #10094 available at:  
10094: <https://www.bio-rad-antibodies.com/uploads/MSDS/10094.pdf>

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**Licensed Use**      For in vitro research purposes only, unless otherwise specified in writing by Bio-Rad.

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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 Secondary Antibodies

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

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

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