

## Datasheet: HCA086PE

<b>Description:</b>	HUMAN ANTI HUMAN CD81:RPE
<b>Specificity:</b>	CD81
<b>Other names:</b>	TAPA-1
<b>Format:</b>	RPE
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	6083
<b>Isotype:</b>	HuCAL Fab bivalent
<b>Quantity:</b>	100 TESTS

## 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

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 lyophilised.

### Reconstitution

Reconstitute with 1.0ml distilled water

### Max Ex/Em

Fluorophore	Excitation (nm)	Emission (nm)
PE 488nm laser	496	578
PE 561nm laser	546	578

### Preparation

Metal chelate affinity chromatography

### Buffer Solution

Phosphate buffered saline

### Preservative

0.09% Sodium Azide (NaN<sub>3</sub>)

### Stabilisers

1% Bovine Serum Albumin  
5% Sucrose

### Immunogen

Recombinant human CD81.

**External Database  
Links**

**UniProt:**  
[P60033](#) [Related reagents](#)

**Entrez Gene:**  
[975](#) CD81 [Related reagents](#)

---

**Synonyms** TAPA1, TSPAN28

---

**Specificity** **Human anti Human CD81 antibody, clone 6083** specifically recognizes human CD81, which is a 26kDa 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 envelope E2 glycoprotein and is vital for HCV entry into hepatic cells.

---

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

---

**Storage** Prior to reconstitution store at +4°C.  
After reconstitution store at +4°C.  
DO NOT FREEZE. This product should be stored undiluted. This product is photosensitive and should be protected from light.

---

**Shelf Life** 12 months from date of reconstitution.

---

**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 #10075 available at:  
<https://www.bio-rad-antibodies.com/uploads/MSDS/10075.pdf>

---

**Licensed Use** For in vitro research purposes only, unless otherwise specified in writing by 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

[HUMAN SEROBLOCK \(BUF070A\)](#)

[HUMAN SEROBLOCK \(BUF070B\)](#)

[HUMAN SEROBLOCK \(BUF070A\)](#)

[HUMAN SEROBLOCK \(BUF070B\)](#)

[HUMAN SEROBLOCK \(BUF070A\)](#)

[HUMAN SEROBLOCK \(BUF070B\)](#)

[HUMAN SEROBLOCK \(BUF070A\)](#)

HUMAN SEROBLOCK (BUF070B)

**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)

'M304876:170420'

**Printed on 17 May 2017**

---

© 2017 Bio-Rad Laboratories Inc | [Legal](#) | [Imprint](#)