

Datasheet: HCA086F

Description:	HUMAN ANTI HUMAN CD81:FITC
Specificity:	CD81
Other names:	TAPA-1
Format:	FITC
Product Type:	Monoclonal Antibody
Clone:	6083
Isotype:	HuCAL Fab bivalent
Quantity:	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.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			Neat - 1/2
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.

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 a liquid conjugated to Fluorescein Isothiocyanate Isomer I (FITC).

Max Ex/Em	Fluorophore	Excitation (nm)	Emission (nm)
	FITC	490	520

Preparation

Metal chelate affinity chromatography

Buffer Solution

Phosphate buffered saline

Preservative

0.09% Sodium Azide (NaN₃)

Stabilisers

1% Bovine Serum Albumin

Approx. Protein Concentrations	Total protein concentration 0.1mg/ml
Immunogen	Recombinant human CD81.
External Database Links	<p>UniProt: P60033 Related reagents</p> <p>Entrez Gene: 975 CD81 Related reagents</p>
Synonyms	TAPA1, TSPAN28
Specificity	<p>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.</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 envelope E2 glycoprotein and is vital for HCV entry into hepatic cells.</p>
Flow Cytometry	Use 10ul of the suggested working dilution to label 1×10^6 cells in 100ul.
Storage	<p>Store at +4°C or at -20°C if preferred. Storage in frost-free freezers is not recommended. This product should be stored undiluted. This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.</p>
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, Zepelinstr. 4, 82178 Puchheim, Germany.
Health And Safety Information	Material Safety Datasheet Documentation #10041 available at: https://www.bio-rad-antibodies.com/uploads/MSDS/10041.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 Negative Controls

[HuCAL Fab-dHLX-MH NEGATIVE CONTROL:FITC \(HCA052F\)](#)
[HuCAL Fab-dHLX-MH NEGATIVE CONTROL:FITC \(HCA052F\)](#)
[HuCAL Fab-dHLX-MH NEGATIVE CONTROL:FITC \(HCA052F\)](#)
[HuCAL Fab-dHLX-MH NEGATIVE CONTROL:FITC \(HCA052F\)](#)

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 \(BUF070B\)](#)

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