

Datasheet for ABIN1720914

anti-CD81 antibody[Go to Product page](#)**4** Images**1** Publication

Overview

Quantity:	100 µg
Target:	CD81
Reactivity:	Human
Host:	Rat
Clonality:	Monoclonal
Application:	Flow Cytometry (FACS), Cell-ELISA (cELISA)

Product Details

Immunogen:	genetic immunisation with cDNA encoding human CD81
Clone:	QV-6A8-S3
Isotype:	IgG2b
Specificity:	Anti-human CD81 (TAPA-1)
Characteristics:	Selection: Based on recognition of the complete native protein expressed on transfected mammalian cells
Purification:	Protein G

Target Details

Target:	CD81
Alternative Name:	CD81 (CD81 Products)
Background:	CD81 (TAPA-1) belongs to the transmembrane 4 superfamily (tetraspanin family). CD81 is a

Target Details

widely expressed cell-surface protein that is characterized by the presence of four transmembranic domains, short N and C termini, a small extracellular loop (SEL) and a large extra-cellular loop (LEL). It is expressed on cells of hematopoietic, neuroectodermal and mesenchymal origin and plays a role in the regulation of cell development, cell-growth and signal transduction. CD81 plays a critical role in Hepatitis C Infection and is involved in HCV entry due to its ability to interact with virus' E1/E2 glycoproteins. CD81 is an essential HCV host factor as silencing of CD81 expression by CD81-specific monoclonal antibodies in hepatoma cells inhibits HCV entry.

UniProt: [P60033](#)

Pathways: [Inositol Metabolic Process](#), [Hepatitis C](#)

Application Details

Application Notes: Flow cytometry: 1.2 µg/10⁶ cells
ELISA: 1:200 - 1:400
CELISA: 1:200 - 1:400
For each application a titration should be performed to determine the optimal concentration.

Comment: Synonyms: TAPA-1

Restrictions: For Research Use only

Handling

Buffer: PBS, pH 7.2

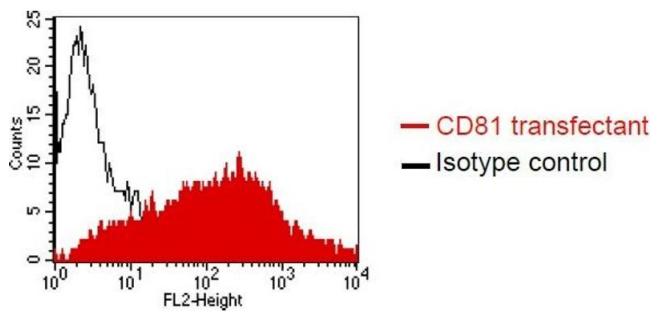
Handling Advice: Avoid repeated freezing and thawing.

Storage: 4 °C

Storage Comment: short term: 2 °C - 8 °C, long term: -20 °C

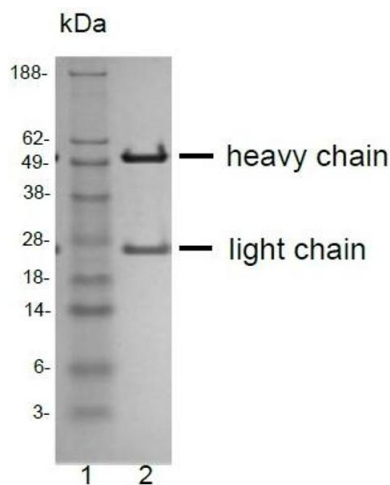
Publications

Product cited in: Fofana, Xiao, Thumann, Turek, Zona, Tawar, Grunert, Thompson, Zeisel, Baumert: "A novel monoclonal anti-CD81 antibody produced by genetic immunization efficiently inhibits Hepatitis C virus cell-cell transmission." in: **PLoS ONE**, Vol. 8, Issue 5, pp. e64221, (2013) ([PubMed](#)).



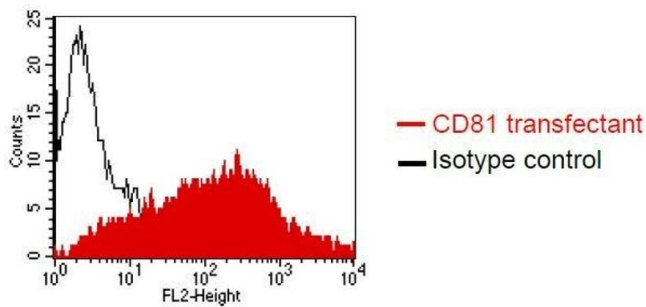
Flow Cytometry

Image 1. FACS analysis of Dubca cells using QV-6A8-S3 (ABIN1720914). Dubca cells were transiently transfected with an expression vector encoding CD81 (red curve). Binding of QV-6A8-S3 was detected with a PE-conjugated secondary antibody. (Isotype control: black curve).



SDS-PAGE

Image 2. SDS-PAGE analysis of purified QV-6A8-S3 monoclonal antibody. Lane 1: molecular weight marker, Lane 2: 2 μ g of purified QV-6A8-S3 antibody. Proteins were separated by SDS-PAGE and stained with RAPID StainTM Reagent.



Flow Cytometry

Image 3. FACS analysis of Dubca cells using QV-6A8-S3 Cat. #. Dubca cells were transiently transfected with an expression vector encoding CD81 (red curve). Binding of QV-6A8-S3 was detected with a PE-conjugated secondary antibody. (Isotype control: black curve).

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN1720914.