

For Research Use Only

# CD81 Monoclonal antibody

Catalog Number: 66866-1-Ig

Featured Product

170 Publications



## Basic Information

Catalog Number:

66866-1-Ig

Size:

150ul, Concentration: 1000 ug/ml by Nanodrop;

Source:

Mouse

Isotype:

IgG1

Immunogen Catalog Number:

AG27298

GenBank Accession Number:

BC002978

GeneID (NCBI):

975

ENSEMBL Gene ID:

ENSG00000110651

UNIPROT ID:

P60033

Full Name:

CD81 molecule

Calculated MW:

26 kDa

Observed MW:

22 kDa

Purification Method:

Protein A purification

CloneNo.:

1G2C6

Recommended Dilutions:

WB 1:1000-1:6000

IHC 1:500-1:2000

IF-P 1:600-1:2400

## Applications

Tested Applications:

WB, IHC, IF-P, ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human

Cited Species:

human, pig, rabbit, monkey

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

Positive Controls:

WB: Raji cells, HCT 116 cells, HEK-293 cells, Jurkat cells, LPS treated THP-1 cells, Ramos cells, Daudi cells

IHC: human tonsillitis tissue,

IF-P: human tonsillitis tissue,

## Background Information

CD81 (also known as TAPA1 or TSPAN28) is a membrane protein of the tetraspanin superfamily, which are characterized by the presence of four conserved transmembrane regions. Many of these members are expressed on leukocytes and have been implicated in signal transduction, cell-cell interactions, and cellular activation and development. CD81 is involved in signal transduction and cell adhesion in the immune system (PMID: 9597125). CD81 has also been identified as an essential receptor for HCV (hepatitis C virus) (PMID: 21428934).

## Notable Publications

Author	Pubmed ID	Journal	Application
Folnetti A Alvarez	36114323	Breast Cancer Res Treat	WB
Haiyu Li	31595161	Int J Biol Sci	WB
Nazli Khodayari	32887613	Cell Commun Signal	WB

## Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

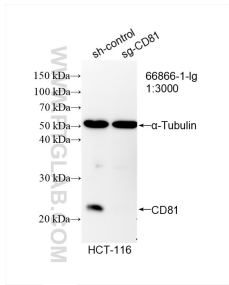
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

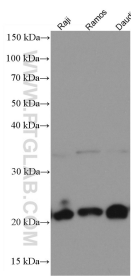
E: proteintech@ptglab.com  
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

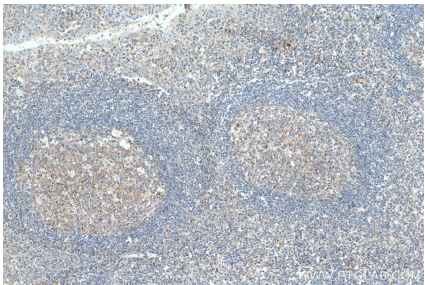
Selected Validation Data



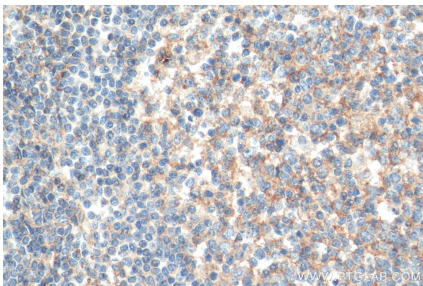
WB result of CD81 antibody (66866-1-Ig; 1:3000; room temperature for 1.5 hours) with wild-type and CD81 knockout HCT 116 cells.



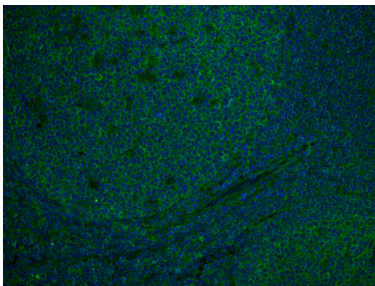
Various lysates were subjected to SDS PAGE followed by western blot with 66866-1-Ig (CD81 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



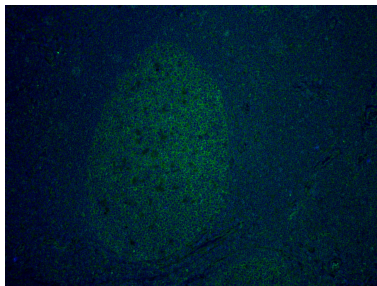
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 66866-1-Ig (CD81 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 66866-1-Ig (CD81 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed human tonsillitis tissue using CD81 antibody (66866-1-Ig, Clone: 1G2C6) at dilution of 1:1000 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed human tonsillitis tissue using CD81 antibody (66866-1-Ig, Clone: 1G2C6) at dilution of 1:1000 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).