

## Anti-CD81 antigen CD81 Antibody

Catalog Number: A01281

### About CD81

CD81 is a member of the transmembrane 4 superfamily, also known as the tetraspanin family, a group of cell-surface proteins that are characterized by the presence of four hydrophobic domains and mediate signal transduction events that play a role in the regulation of cell development, activation, growth and motility. CD81 is a cell surface glycoprotein that associates with integrins and appears to promote muscle cell fusion and support myotube maintenance. Along with SCARB1, LDL-R, and CLDN1, CD81 has been reported to be an entry factor for the Hepatitis C virus. Finally, recent evidence indicates that the CD81 gene is localized in a tumor-suppressor gene region and is thus a candidate gene for malignancies.

### Overview

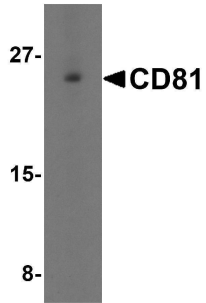
Product Name	Anti-CD81 antigen CD81 Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-CD81 antigen CD81 Antibody (Catalog # A01281). Tested in ELISA, WB, IHC-P, IF applications. This antibody reacts with Human, Mouse, Rat.
Application	ELISA, IF, IHC-P, WB
Clonality	Polyclonal
Formulation	CD81 Antibody is supplied in PBS containing 0.02% sodium azide.
Storage Instructions	CD81 antibody can be stored at 4°C up to one year. Antibodies should not be exposed to prolonged high temperatures.
Host	Rabbit
Uniprot ID	P60033

### Technical Details

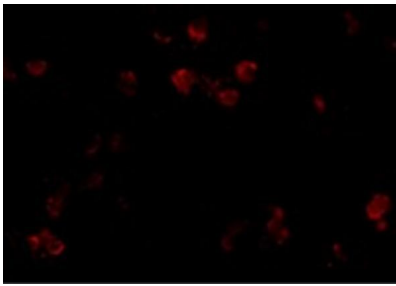
Immunogen	CD81 antibody was raised against a 20 amino acid synthetic peptide near the amino terminus of human CD81. The immunogen is located within amino acids 30 - 80 of CD81.
Predicted Reactive Species	Bovine
Isotype	IgG
Form	Liquid
Concentration	1 mg/mL
Purification	CD81 Antibody is affinity chromatography purified via peptide column.
Suggested Dilutions	CD81 antibody can be used for detection of CD81 by Western blot at 2.5 ug/mL. Antibody can also be used for immunohistochemistry starting at 2 ug/mL. For immunofluorescence start at 10 ug/mL.

Antibody validated: Western Blot in human samples; Immunohistochemistry in human samples and Immunofluorescence in human samples. All other applications and species not yet tested. Optimal dilutions for each application should be determined by the researcher.

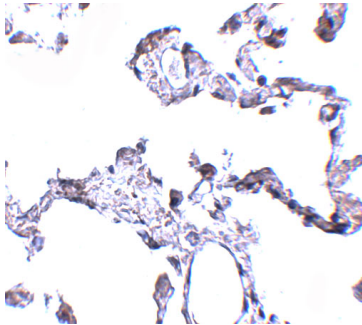
## Anti-CD81 antigen CD81 Antibody (A01281) Images



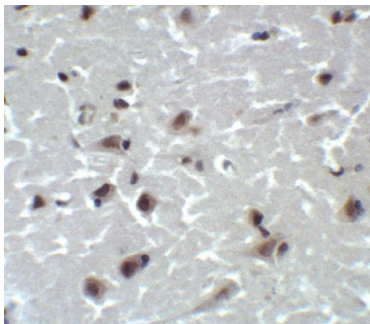
Western blot analysis of CD81 in human lung tissue lysate with CD81 antibody at 1 ug/mL in (A) the absence and (B) the presence of blocking peptide.



Immunofluorescence of CD81 in A549 cells with CD81 antibody at 20 ug/mL.

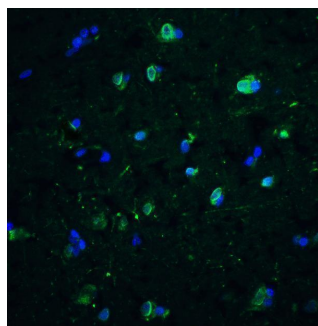


Immunohistochemistry of CD81 in human lung tissue with CD81 antibody at 5 ug/mL.



Immunohistochemistry of CD81 in human brain tissue with CD81 antibody at 2 ug/ml.

Immunofluorescence of CD81 in human brain tissue with CD81 antibody at 10 ug/ml. Green: CD81 Antibody (A01281)  
Blue: DAPI staining



## 1 Publications Citing This Product

1. PubMed ID: 32400849, Cao G, Meng X, Han X, Li J. Exosomes derived from circRNA Rtn4-modified BMSCs attenuate TNF-alpha-induced cytotoxicity and apoptosis in murine MC3T3-E1 cells by sponging miR-146a. Biosci Rep. 2020 May 29;40(5): BSR20193436. doi:10.1042/BSR20193436. PMID:32400849; PMC

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