

CD81 Antibody

CD81: S5.7, TAPA1, TSPAN28

CATALOG No.: 5195

Background:

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 (1,2). CD81 is a cell surface glycoprotein that associates with integrins (3) and appears to promote muscle cell fusion and support myotube maintenance (4). Along with SCARB1, LDL-R, and CLDN1, CD81 has been reported to be an entry factor for the Hepatitis C virus (5). Finally, recent evidence indicates that the CD81 gene is localized in a tumor-suppressor gene region and is thus a candidate gene for malignancies (6).

SOURCE:

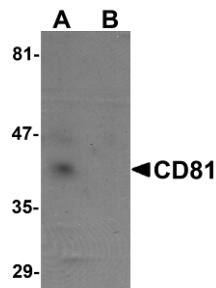
Rabbit polyclonal CD81 antibody was raised against a 20 amino acid peptide near the amino terminus of human CD81 (GenBank accession no. NP_004347).

APPLICATION:

CD81 antibody can be used for detection of CD81 by Western blot at 1 - 2 µg/ml. (Optimal dilution should be determined by user.) Human lung tissue can be used as positive control. CD81 antibody is human, mouse and rat reactive. **For research use only.**

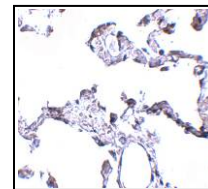
STORAGE:

CD81 antibody is supplied as immunoaffinity purified IgG in PBS containing 0.02% sodium azide. Store at 4°C, stable for one year.



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

Immunohistochemistry of CD81 in human lung tissue with CD81 antibody at 5 µg/ml.



RELATED PRODUCTS:

Blocking Peptide, Catalog No. **5195P**.
Human Lung Tissue Lysate, Catalog No. **1302**.
Integrin alpha 4 Antibody (CT), Catalog No. **4783**.
CLDN1 Antibody, Catalog No. **5187**.
SCARB1 Antibody, Catalog No. **5193**.
LDL-R Antibody, Catalog No. **5163**.

REFERENCES:

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- Tacvhibana I and Hemler ME. Role of transmembrane 4 superfamily (TM4SF) proteins CD9 and CD81 in muscle cell fusion and myotube maintenance. *J. Cell Biol.* 1999; 146:893-904.
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