

Datasheet for 600-401-AJ2**CD81 Antibody****Overview**

Description:	Anti-CD81 (RABBIT) Antibody - 600-401-AJ2
Item No.:	600-401-AJ2
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

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. 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.
Synonyms:	CD81 Antibody, S5.7, CVID6, TAPA1, TSPAN28, CD81 antigen, 26 kDa cell surface protein TAPA-1, Tspan-28
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	CD81
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-CD81 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 20 amino acid synthetic peptide near the N-terminus of human CD81.

Purity/Specificity: Anti-CD81 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with CD81 from other sources has not been determined.

Relevant Links:

- [UniProtKB - P60033](#)
- [GeneID - 975](#)
- [NCBI - NP_004347](#)

Application Details

Tested Applications: ELISA, IF, IHC, WB

Application Note: Anti-CD81 Antibody has been tested for use in ELISA, Western Blotting, Immunohistochemistry, and Immunofluorescence. Expect a band at approximately 26 kDa in Western Blots using positive control Human lung tissue, which can be used for IHC, A549 whole cell lysates for IF, or other specific cell lysates and tissues. Specific conditions for reactivity should be optimized by the end user.

Assay Dilutions: All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

ELISA: 1:10,000

IF: 20 µg/mL

IHC: 5 µg/mL

WB: 1 µg/mL

Formulation

Physical State: Liquid (sterile filtered)

Concentration: 1.0 mg/mL by UV absorbance at 280 nm

Buffer: 0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2

Preservative: 0.02% (w/v) Sodium Azide

Stabilizer: None

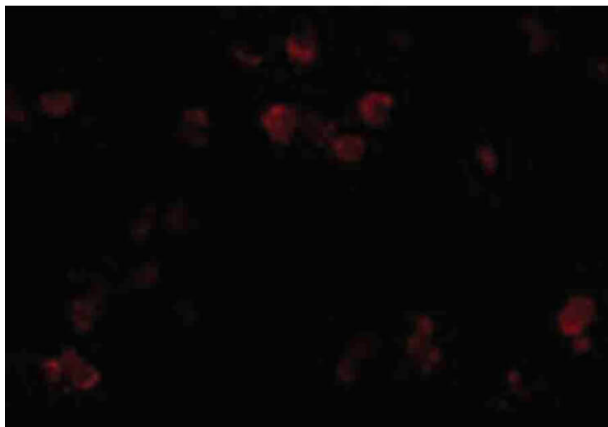
Shipping & Handling

Shipping Condition: Wet Ice

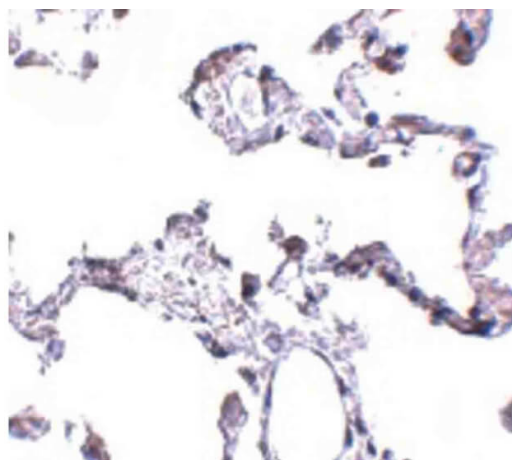
Storage Condition: Antibody can be stored at 4°C up to one year. Antibodies should not be exposed to prolonged high temperatures.

Expiration:

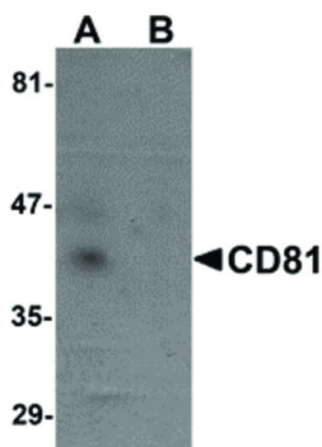
Expiration date is one (1) year from date of receipt.

Images**Immunofluorescence Microscopy**

Immunofluorescence Microscopy of CD81 antibody. Tissue: A549 cells. Fixation: 0.5% PFA. Antigen retrieval: not required. Primary antibody: CD81 antibody at 20 µg/mL for 1 h at RT. Secondary antibody: Fluorescein rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: CD81 is a membrane protein. Staining: CD81 as red fluorescent signal.

**Immunohistochemistry**

Immunohistochemistry of CD81 antibody. Tissue: human lung tissue. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: CD81 antibody at 5 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: CD81 is a membrane protein. Staining: CD81 as precipitated purple signal with blue nuclear counterstain.



Western Blot

Western Blot of CD81 antibody. Lane 1: Human lung tissue lysate with CD81 antibody at 1 μ g/mL in the absence on blocking peptide. Lane 2: Human lung tissue lysate with CD81 antibody at 1 μ g/mL in the presence on blocking peptide. Load: 35 μ g per lane. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 26 kDa, 41 kDa for CD81. Other band(s): CD81 splice variants and isoforms.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.