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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

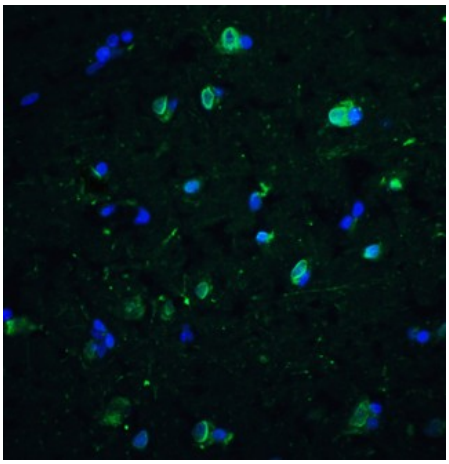
Physical State:	Liquid (sterile filtered)
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

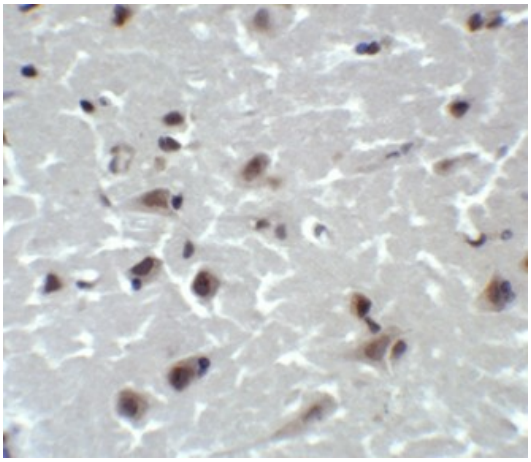
Shipping Condition:	Wet Ice
Storage Condition:	Antibody can be stored at 4°C up to one year. Antibodies should not be exposed to prolonged high temperatures.

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

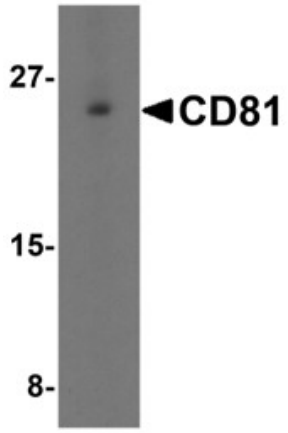
Images



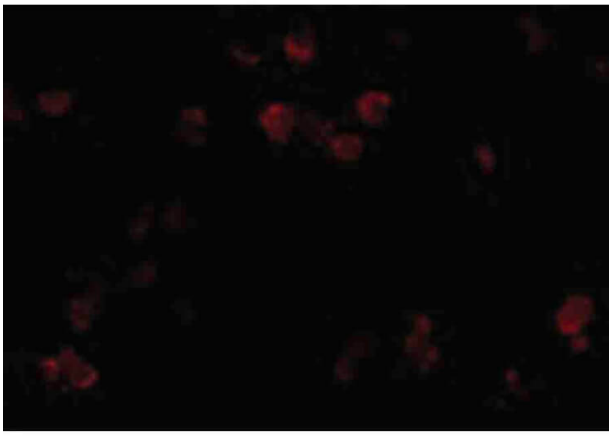
Immunofluorescence Microscopy
Immunofluorescence of CD81 in human brain tissue with CD81 antibody at 10 µg/ml. Green: CD81 Antibody. Blue: DAPI staining.



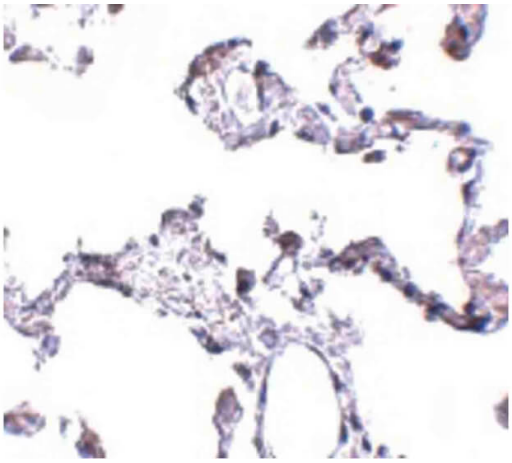
Immunohistochemistry
Immunohistochemistry of CD81 in human brain tissue with CD81 antibody at 2 µg/ml.



Western Blot
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 petide.



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.

Disclaimer

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