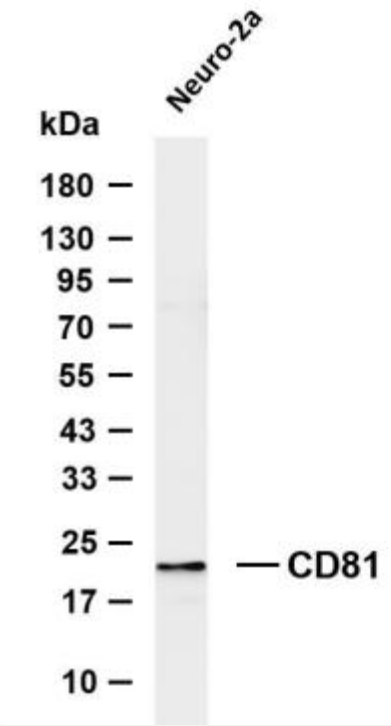
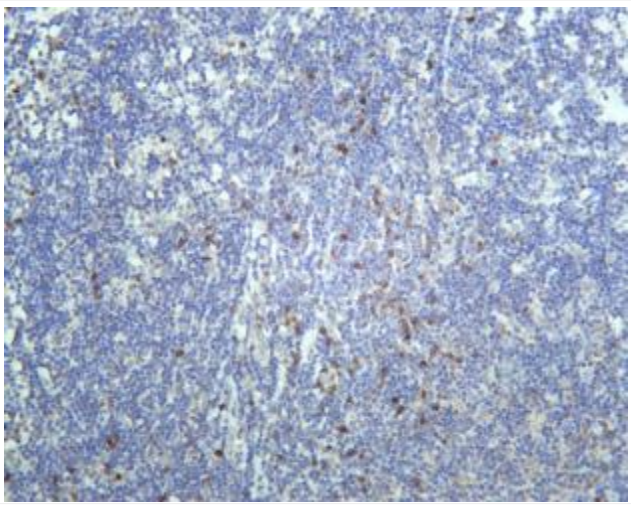
CD81 Rabbit mAb

Catalog No	YP-rAb-17463
Isotype	IgG
Reactivity	Human,Mouse,Rat,Bovine
Applications	WB,IHC,IF,ELISA
Gene Name	CD81
Protein Name	CD81 antigen
Purification Process	Protein A
Specificity	Endogenous
Formulation	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
Source	Monoclonal, Rabbit,IgG
Dilution	IHC 1:200-1:1000; WB 1:2000-1:10000; IF 1:200-1:1000; ELISA 1:5000-1:20000; Note: For IHC, we suggest antigen retrieval with TE buffer pH 9.0
Concentration	0.5 mg/ml
Purity	≥90%
Storage Stability	-15° C to -25° C/1 year(Do not lower than -25° C)
Synonyms	CD81;CD81 antigen;CD81 ; TAPA1 ; TSPAN28 ; CD81 antigen ; 26 kDa cell surface protein TAPA-1 ; Target of the antiproliferative antibody 1 ; Tetraspanin-28 ; Tspan-28 ; CD81
Observed Band	22kD
Calculated Molecular Weight	26kD
Cell Pathway	Cell membrane ; Multi-pass membrane protein . Basolateral cell membrane ; Multi-pass membrane protein . Associates with CLDN1 and the CLDN1-CD81 complex localizes to the basolateral cell membrane. .
Tissue Specificity	Expressed on B cells (at protein level) (PubMed:20237408). Expressed in hepatocytes (at protein level) (PubMed:12483205). Expressed in monocytes/macrophages (at protein level) (PubMed:12796480). Expressed on both naive and memory CD4-positive T cells (at protein level) (PubMed:22307619).
Function	May play an important role in the regulation of lymphoma cell growth. Interacts with a 16-kDa Leu-13 protein to form a complex possibly involved in signal transduction. May acts a the viral receptor for HCV.,PTM:Not glycosylated.,similarity:Belongs to the tetraspanin (TM4SF) family.,subunit:Plays a critical role in HCV attachment and/or cell entry by interacting with HCV E1/E2 glycoproteins heterodimer. Interacts directly with IGSF8.,tissue specificity:Hematolymphoid, neuroectodermal and mesenchymal tumor cell lines.,

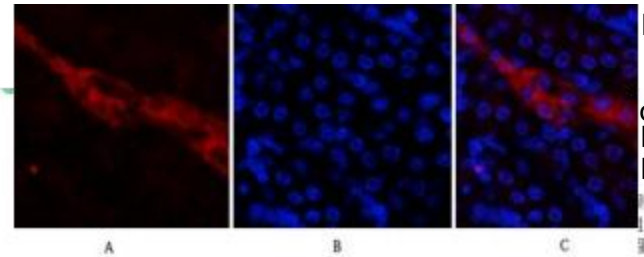
Background	The protein encoded by this gene is a member of the transmembrane 4 superfamily, also known as the tetraspanin family. Most of these members are cell-surface proteins that are characterized by the presence of four hydrophobic domains. The proteins mediate signal transduction events that play a role in the regulation of cell development, activation, growth and motility. This encoded protein is a cell surface glycoprotein that is known to complex with integrins. This protein appears to promote muscle cell fusion and support myotube maintenance. Also it may be involved in signal transduction. This gene is localized in the tumor-suppressor gene region and thus it is a candidate gene for malignancies. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2014],
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



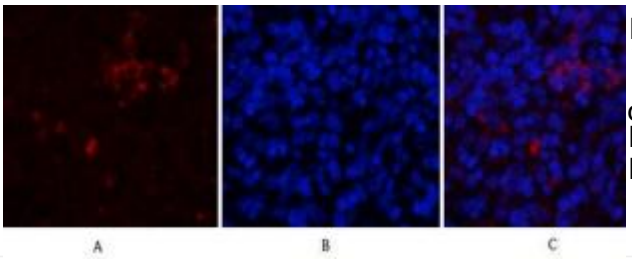
Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-CD81 antibody. The HRP-conjugated Goat anti-Rabbit IgG (H + L) antibody was used to detect the antibody. Lane 1: Neuro-2a Predicted band size: 26kDa Observed band size: 22kDa



Human tonsil was stained with anti-CD81 Rabbit antibody



Immunofluorescence analysis of mouse-kidney tissue. 1,CD81 Monoclonal Antibody(red) was diluted at 1:200 (4℃,overnight). 2, Cy3 labled Secondary antibody was diluted at 1:300(room temperature, 50min) 3, Picture B: DAPI(blue) 10min. Picture A: Target. Picture B: DAPI. Picture C: merge of A+B



Immunofluorescence analysis of rat-spleen tissue . 1,CD81 Monoclonal Antibody(red) was diluted at 1 :200(4℃,overnight). 2, Cy3 labled Secondary antibody was diluted at 1:300(room temperature, 50min).3, Picture B: DAPI(blue) 10min. Picture A:Target. Picture B: DAPI. Picture C: merge of A+B