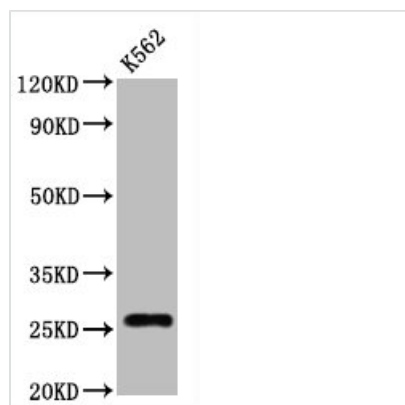




CD81 Recombinant Monoclonal Antibody

Product Code	CSB-RA004960A0HU
Abbreviation	CD81 antigen
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	P60033
Immunogen	A synthesized peptide
Species Reactivity	Human, Mouse, Rat
Tested Applications	ELISA, WB, IHC, FC; Recommended dilution: WB:1:500-1:5000, IHC:1:50-1:500
Relevance	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 act as the viral receptor for HCV.
Form	Liquid
Conjugate	Non-conjugated
Storage Buffer	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purification Method	Affinity-chromatography
Isotype	Rabbit IgG
Clonality	Monoclonal
Alias	CD81 antigen, 26 kDa cell surface protein TAPA-1, Target of the antiproliferative antibody 1, Tetraspanin-28, Tspan-28, CD81
Immunogen Species	Homo sapiens (Human)
Research Area	Immunology
Gene Names	CD81
Clone No.	9F7

Image



Western Blot

Positive WB detected in:K562 whole cell lysate

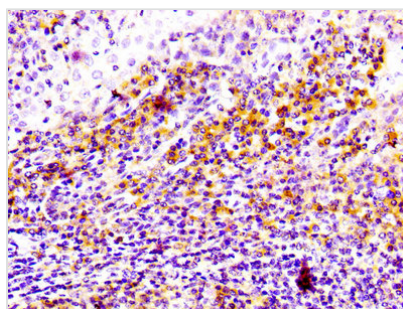
All lanes:CD81 antibody at 1.25μg/ml

Secondary

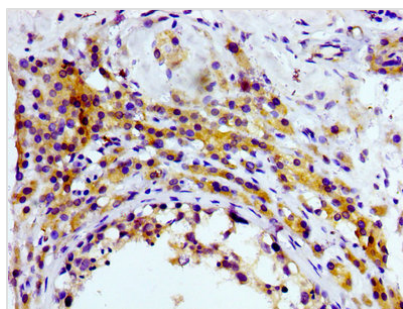
Goat polyclonal to rabbit IgG at 1/50000 dilution

Predicted band size: 26 KDa

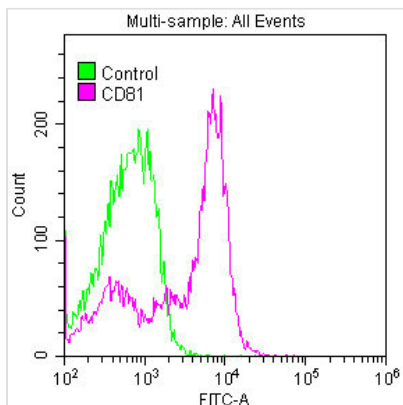
Observed band size: 26 KDa



IHC image of CSB-RA004960A0HU diluted at 1:100 and staining in paraffin-embedded human tonsil tissue performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.



IHC image of CSB-RA004960A0HU diluted at 1:100 and staining in paraffin-embedded human testis tissue performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.



Overlay histogram showing Jurkat cells stained with CSB-RA004960A0HU (red line) at 1:50. The cells were fixed with 70% Ethylalcohol (18h) and then permeabilized with 0.3% Triton X-100 for 2 min. The cells were then incubated in 1x PBS /10% normal goat serum to block non-specific protein-protein interactions followed by primary antibody for 1 h at 4°C. The secondary antibody used was FITC goat anti-rabbit IgG (H+L) at 1/200 dilution for 1 h at 4°C. Control antibody (green line) was used under the same conditions. Acquisition of >10,000 events was performed.

Description

CUSABIO got the DNA sequence of the CD81 monoclonal antibody that was produced from the splenocytes generated by the human CD81 synthesized peptide immunization. The DNA sequence was cloned into the plasmid and then transfected into cell lines for in vitro expression. The product is the CD81 recombinant monoclonal antibody. It is a rabbit IgG antibody purified using the affinity-chromatography method. This CD81 antibody has been validated in ELISA, WB, IHC, and FC applications and reacts with the CD81 protein from human, mouse, and rat sources.

CD81 is an immune system regulator that regulates immunological synapse development, adhesion, motility, receptor clustering, and signaling, among other biological functions. CD81 forms a compound with CD19 and CD21 in B cells, lowering the activation threshold for B cell receptors. CD81 has been discovered as a component of the B lymphocyte receptor as well as a hepatitis C virus-host entry factor.