Anti-Human CD81 Antibody (005-C01)

Summary

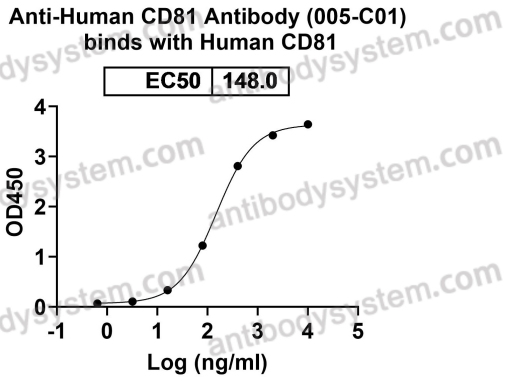
Catalog No.	RHF34001
Clone ID	005-C01
Host species	Human
Tested applications	ELISA: 1:4000-1:8000, IHC: 1:50-1:200, WB: 1:500-1:4000
Species reactivity	Human
Form	Liquid
Storage buffer	0.01M PBS, pH 7.4.
Concentration	1.03 mg/ml
Purity	>95% as determined by SDS-PAGE.
Clonality	Monoclonal
Isotype	IgG1
Applications	ELISA, FCM, IHC, WB
Target	CD81 antigen,TSPAN28,Target of the antiproliferative antibody 1,Tspan-28,Tetraspanin-28,CD81,TAPA1,26 kDa cell surface protein TAPA-1
Purification	Protein A/G purified from cell culture supernatant.
Endotoxin level	Please contact with the lab for this information.
Expression system	Mammalian Cells
Accession	P60033

Stability and Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. Store at 4°C short term (1-2 weeks). Store at -20°C 12 months. Store at -80°C long term.
Note	For research use only.

Description

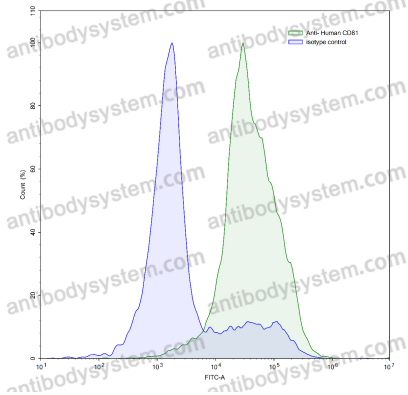
CD81 (TAPA-1, target of anti-proliferative antibody-1) is a member of the tetraspanin family, is expressed on virtually all nucleated cells, but above all on germinal center B cells. CD81 forms complexes with other tetraspanin proteins, integrins, coreceptors, MHC class I and II molecules, and influences adhesion, morphology, activation, proliferation and differentiation of B, T cells. In muscles, CD81 promotes cell fusion and myotube maintenance. CD81 has been also identified as a receptor for the hepatitis C virus. Like members of the tetraspanin family that include CD9, CD37, CD53, CD63, and CD82, CD81 is a 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. CD81 is a cell surface glycoprotein that is known to complex with integrins. CD81 appears to promote muscle cell fusion and support myotube maintenance. CD81 associates with CD19, CD21, Leu 13, and integrins on cell membrane and acts as a receptor for the envelope protein E2 of chronic hepatitis C virus. Antibodies to CD81 have anti-proliferative effects on different lymphoid cell lines, particularly those derived from large cell lymphomas. CD81 is also localized in the tumor-suppressor gene region and is a candidate gene for malignancies.

Data Image



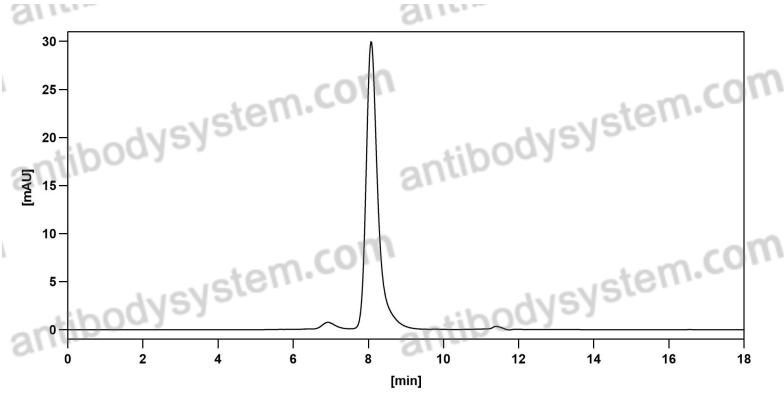
Bioactivity

Detects CD81 in indirect ELISAs.



Flow-cytometry

Flow-cytometry using anti-human CD81 antibody.Human peripheral blood lymphocytes were stained with an irrelevant antibody (Blue Histogram) or an anti-human CD81 antibody monoclonal antibody (Catalog # RHF34001 ,Green Histogram) at a concentration of 5 µg/ml for 30 mins at RT. After washing, bound antibody was detected using a FITC conjugated goat anti-human antibody (Catalog # PHB96441) and cells analysed on a NovoCyte Flow Cytometer.



SEC-HPLC

The purity of this product is >95% as determined by SEC-HPLC.