ProteinFind® Anti-CD81 Mouse Monoclonal Antibody

Please read the manual carefully before use.

Cat. No. HE906

Storage: PBS (pH7.4), 0.02% Sodium Azide, 50% Glycerol; at -20℃ for two years, avoid repeated freeze-thawing.

Description

CD81, also known as TAPA-1, is a member of the transmembrane 4 protein superfamily (TM4SF). It is widely expressed in eukaryotic cell membranes, forms complexes with other quad-transmembrane proteins, integrins, co-receptors, MHC Class I and Class II molecules, and affects the adhesion, morphology, activation, proliferation and differentiation of B and T cells [1, 2]. In muscle, CD81 promotes cell fusion and muscle tube maintenance. CD81 is also a highly characterized hepatitis C virus receptor, which can promote the virus to invade target cells [3].

Species Reactivity: Human

Clone Number: Trans-7F10

Antibody Isotype: Mouse IgG2a

Immunogen

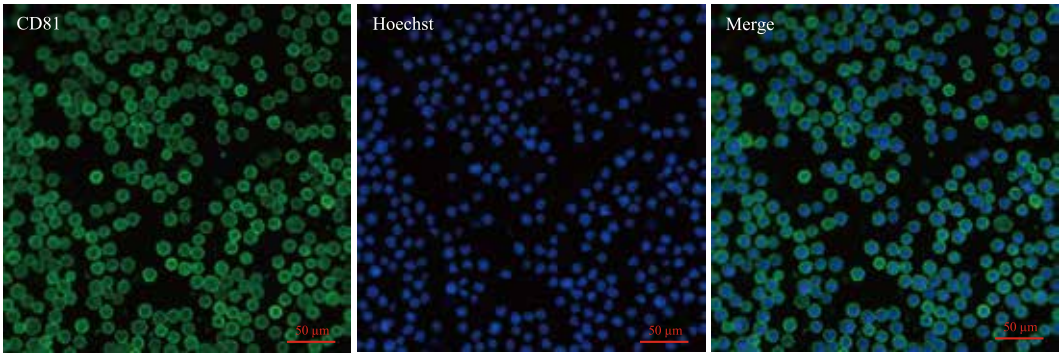
- Extracellular domain of human CD81 protein
- Entrez Gene ID: 975
- UniProt ID: P60033

Applicable Experiments and Dilution

- IF: 1:100 dilution is recommended.
- FC: 1:100 dilution is recommended.

Positive Control Cell Line: Jurkat cells

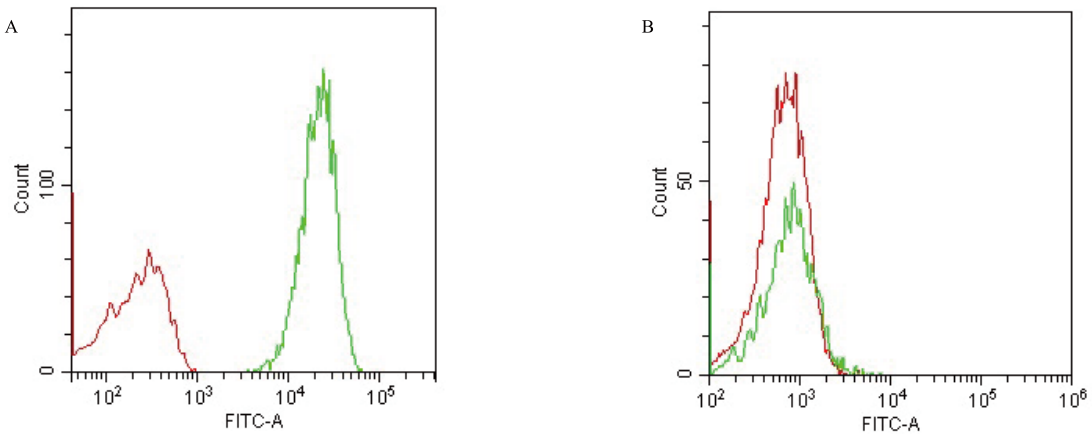
★Advanced Validation: The antibody was validated by the relative expression of protein levels in different cell lines.



IF: *ProteinFind*® Anti-CD81 Mouse Monoclonal Antibody (green) for detection of CD81 localization in Jurkat cells.

Hoechst is used to label the nucleus (blue).

Dilution ratio of primary antibody: 1:100



FC: *ProteinFind*® Anti-CD81 Mouse Monoclonal Antibody (green) for FC detection of Jurkat cells (positive cells) (A) and Hep G2 cells (negative cells) (B). The negative Control was Mouse IgG2a Isotype Control (red).

Dilution ratio of primary antibody: 1:100

References

[1] Cherukuri A, Carter RH, Brooks S, et al. B Cell Signaling Is Regulated by Induced Palmitoylation of CD81 [J]. Journal of Biological Chemistry, 2004, 279(30): 31973-82.

[2] Sagi Y, Landrigan A, Levy R, et al. Complementary costimulation of human T-cell subpopulations by cluster of differentiation 28 (CD28) and CD81 [J]. Proceedings of the National Academy of Sciences, 2012, 109(5): 1613-8.

[3] Bartosch B, Vitelli A, Granier C, et al. Cell Entry of Hepatitis C Virus Requires a Set of Co-receptors That Include the CD81 Tetraspanin and the SR-B1 Scavenger Receptor [J]. Journal of Biological Chemistry, 2003, 278(43): 41624-30.