

Anti-Human CD81-145Nd

Catalog #: 3145007B

Package Size: 100 tests

Storage: Store product at 4°C. Do not freeze.

Cross Reactivity: Chimpanzee

Clone: 5A6

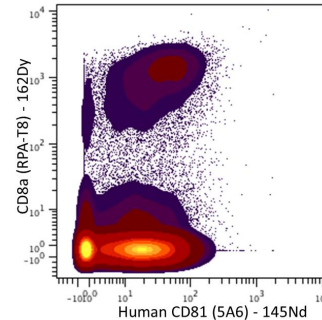
Isotype: Mouse IgG1

Formulation: Antibody stabilizer with 0.05% Sodium Azide

Technical Information

Validation: Each lot of conjugated antibody is quality control tested by CyTOF[®] analysis of stained cells using the appropriate positive and negative cell staining and/or activation controls.

Recommended Usage: The suggested use is 1 µl for up to 3 X 10⁶ live cells in 100 µl. It is recommended that the antibody be titrated for optimal performance for each of the desired applications.



Human PBMCs stained with 162Dy-anti-CD8a (RPA-T8) and 145Nd-anti-CD81(5A6).

Description

The tetraspanin CD81, also known as TAPA-1, was originally identified as the target protein for an antibody that inhibited lymphocyte proliferation and more recently as a receptor defining hepatitis C virus (HCV) infection of hepatocytes. CD81 is expressed on T and B cells, NK cells, monocytes, dendritic cells, thymocytes, endothelial cells and fibroblasts. CD81 induces B cell adhesion via VLA-4 integrin and has been shown to play a role in early T cell development. Antibody engagement of CD81 on immune cells promotes actin cytoskeletal rearrangement and altered cellular function including: T cell stimulation via activation of Lck a Src family protein kinase; inhibition of NK cytolytic activity and B-cell activation and proliferation.

References

Bandura, D. R., et al. Mass Cytometry: Technique for Real Time Single Cell Multitarget Immunoassay Based on Inductively Coupled Plasma Time-of-Flight Mass Spectrometry. *Analytical Chemistry* 81:6813-6822, 2009.

Ornatsky, O. I., et al. Highly multiparametric analysis by mass cytometry. *J Immunol Methods* 361 (1-2):1-20, 2010.

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