

Technical Data Sheet

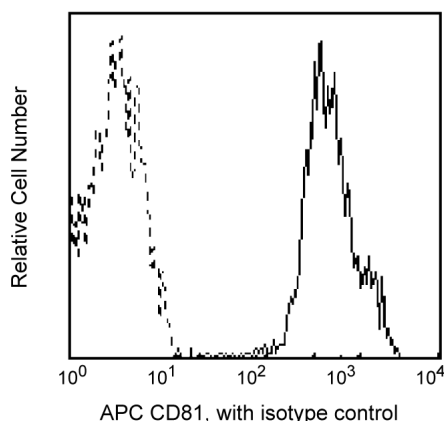
APC Mouse Anti-Human CD81

Product Information

Material Number:	561958
Alternate Name:	TAPA-1
Size:	25 tests
Vol. per Test:	20 µl
Clone:	JS-81
Isotype:	Mouse IgG1, κ
Reactivity:	QC Testing: Human Tested in Development: Dog, Rabbit
Workshop:	V B070
Storage Buffer:	Aqueous buffered solution containing BSA and ≤0.09% sodium azide.

Description

JS-81 identifies the newly clustered CD81 antigen, a 26 kDa, type III transmembrane protein (also known as TAPA-1) that is involved in cell growth and signal transduction. CD81 has a very broad cellular distribution, being expressed on cells of hematopoietic, neuroectodermal and mesenchymal origin. MAbs to CD81 have been shown to have anti-proliferative effects on different lymphoid cell lines, particularly those derived from large cell lymphomas. Immunoprecipitation studies reveal that CD81 is a component of a multimolecular complex which can include the Leu13 molecule, and the CD19 and CD21 molecules in B cells. MAbs to CD81 are reported to induce homotypic cell aggregation.



Profile of peripheral blood lymphocytes analyzed by flow cytometry

Preparation and Storage

Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze.

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

The antibody was conjugated to APC under optimum conditions, and unconjugated antibody and free APC were removed.

Application Notes

Application

Flow cytometry	Routinely Tested
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Suggested Companion Products

Catalog Number	Name	Size	Clone
555751	APC Mouse IgG1, κ Isotype Control	100 tests	MOPC-21
554656	Stain Buffer (FBS)	500 ml	(none)

Product Notices

1. This reagent has been pre-diluted for use at the recommended Volume per Test. We typically use 1×10^6 cells in a 100-µl experimental sample (a test).
2. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
3. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.

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4. For fluorochrome spectra and suitable instrument settings, please refer to our Fluorochrome Web Page at www.bdbiosciences.com/colors.
5. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
6. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
7. This APC-conjugated reagent can be used in any flow cytometer equipped with a dye, HeNe, or red diode laser.
8. An isotype control should be used at the same concentration as the antibody of interest.

References

Bradbury LE, Kansas GS, Levy S, Evans RL, Tedder TF. The CD19/CD21 signal transducing complex of human B lymphocytes includes the target of antiproliferative antibody-1 and Leu-13 molecules. *J Immunol.* 1992; 149(9):2841-2850. (Biology)

Oren R, Takahashi S, Doss C, Levy R, Levy S. TAPA-1, the target of an antiproliferative antibody, defines a new family of transmembrane proteins. *Mol Cell Biol.* 1990; 10(8):4007-4015. (Biology)

Schick MR, Levy S. The TAPA-1 molecule is associated on the surface of B cells with HLA-DR molecules. *J Immunol.* 1993; 151(8):4090-4097. (Biology)