

Technical Data Sheet

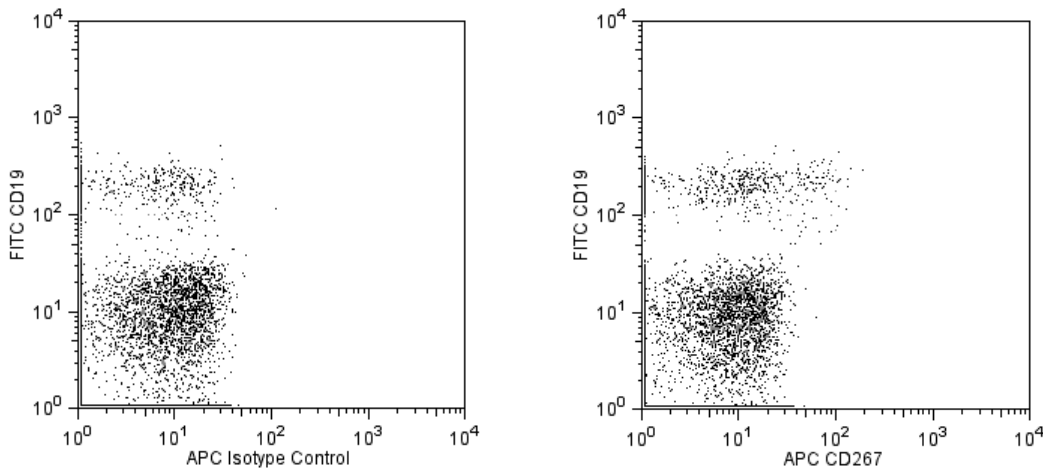
APC Rat Anti-Human CD267

Product Information

Material Number:	562345
Alternate Name:	TACI; TNFRSF13B; Tumor necrosis factor receptor 13B; TNFRSF14B2; CVID2
Size:	50 µg
Concentration:	0.2 mg/ml
Clone:	1A1-K21-M22 (also known as 1A1)
Immunogen:	Human RBL
Isotype:	Rat IgG2a, κ
Reactivity:	QC Testing: Human
Storage Buffer:	Aqueous buffered solution containing ≤0.09% sodium azide.

Description

The 1A1-K21-M22 monoclonal antibody specifically binds to CD267 which is also known as TACI (Transmembrane Activator and CAML Interactor). CD267 is a member of the of the Tumor Necrosis Factor Receptor (TNFR) Superfamily and is encoded by the *TNFRSF13B* gene. This 32 kDa type III transmembrane protein receptor binds to the ligands, BAFF (TNFSF13B/BLyS/CD257) and APRIL (TNFSF13/CD256). Ligand-bound CD267 transduces signals leading to the activation of transcription factors including NFAT, AP1, and NF-kappa-B. CD267 is expressed most notably on maturing subsets of B cells and myeloma cells. In CD267 deficient mice, B cell numbers are increased and mice develop autoimmune disorders suggesting that CD267 plays an important role in the regulation of B cell homeostasis.



Multicolor flow cytometric analysis CD267 expression on human peripheral blood lymphocytes. Human whole blood cells were stained with FITC Mouse Anti-Human CD19 antibody (Cat. No. 555412/560994) and either APC Rat IgG2a, κ Isotype Control (Cat. No. 553932; Left Panel) or APC Mouse Anti-Human CD267 antibody (Cat. No. 562345; Right Panel). The erythrocytes were lysed with BD Pharm Lyse™ Lysing Buffer (Cat. No. 555899). Two-color flow cytometric dot plots showing the correlated expression patterns of CD19 versus CD267 (or Ig isotype control staining) were derived from gated events with the forward and side light-scatter characteristics of viable lymphocytes. Flow cytometry was performed using a BD™ LSR II Flow Cytometer System.

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
553932	APC Rat IgG2a κ Isotype Control	0.1 mg	R35-95
555899	Lysing Buffer	100 ml	(none)
554656	Stain Buffer (FBS)	500 ml	(none)
555412	FITC Mouse Anti-Human CD19	100 tests	HIB19
560994	FITC Mouse Anti-Human CD19	25 tests	HIB19

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. An isotype control should be used at the same concentration as the antibody of interest.
3. 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.
4. This APC-conjugated reagent can be used in any flow cytometer equipped with a dye, HeNe, or red diode laser.
5. For fluorochrome spectra and suitable instrument settings, please refer to our Multicolor Flow Cytometry web page at www.bdbiosciences.com/colors.
6. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.

References

Ng LG, Sutherland AP, Newton R, et al. B cell-activating factor belonging to the TNF family (BAFF)-R is the principal BAFF receptor facilitating BAFF costimulation of circulating T and B cells. *J Immunol.* 2004; 173(2):807-817. (Biology)

O'Connor BP, Raman VS, Erickson LD, et al. BCMA is essential for the survival of long-lived bone marrow plasma cells. *J Exp Med.* 2004; 199(1):91-98. (Biology)

Seshasayee D, Valdez P, Yan M, Dixit VM, Tumas D, Grewal IS. Loss of TACI causes fatal lymphoproliferation and autoimmunity, establishing TACI as an inhibitory BLyS receptor. *Immunity.* 2003; 18(2):279-288. (Biology)

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