

Technical Data Sheet

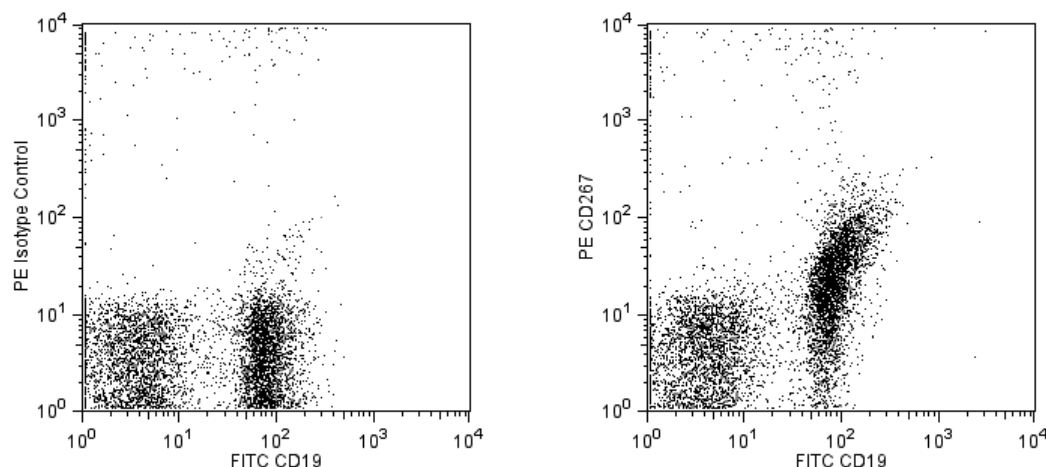
PE Rat anti-Mouse CD267 (TACI)

Product Information

Material Number:	558410
Alternate Name:	TACI
Size:	0.1 mg
Concentration:	0.2 mg/ml
Clone:	8F10
Immunogen:	Rat RBL
Isotype:	Rat IgG2a, κ
Storage Buffer:	Aqueous buffered solution containing $\leq 0.09\%$ sodium azide.

Description

Antibody 8F10 reacts with CD267 (TACI) a type III transmembrane protein receptor that binds to the ligands BAFF (BLYS), and APRIL. BAFF overproduction is associated with lupus erythematosus and Sjögren's disease, two systemic autoimmune diseases. CD267 is expressed most notably on maturing subsets of splenic B cells such as transition type 2 (T2) and marginal zone (MZ) B cells and also in activated T-cells. In CD267 deficient mice, B cell numbers are increased and mice develop autoimmune disorders suggesting that CD267 plays a role in B cell regulation.



Flow cytometric analysis of PE rat anti-mouse CD267 on mouse splenocytes. Unstimulated mouse splenocytes were pre-incubated with Mouse BD Fc Block™ purified anti-mouse CD16/CD32 mAb 2.4G2 (Cat. No. 553141). The cells were then stained with FITC anti-mouse CD19 (Cat. No. 553785) and PE anti-mouse CD267 antibody (Clone 8F10, Cat. No. 558410; right panel) or PE-conjugated rat IgG2a (Clone R35-95, Cat. No. 553930; left panel). Flow cytometry was performed and the dot plots were derived from the gated events based on light scattering characteristics of viable splenocytes. Flow cytometry was performed on a BD™ FACSCalibur flow cytometry instrument.

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 with R-PE under optimum conditions, and unconjugated antibody and free PE were removed.

Application Notes

Application

Flow cytometry	Routinely Tested
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Recommended Assay Procedure:

For flow cytometry of cell suspensions from peripheral lymphoid tissues, it is recommended that the cells be pre-incubated with Mouse BD Fc Block™ purified anti-mouse CD16/CD32 mAb 2.4G2 (Cat. no.553141).

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Suggested Companion Products

Catalog Number	Name	Size	Clone
553930	PE Rat IgG2a, κ Isotype Control	0.1 mg	R35-95
553141	Purified Rat Anti-Mouse CD16/CD32 (Mouse BD Fc Block™)	0.1 mg	2.4G2

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. 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.
3. Please refer to www.bdbiosciences.com/pharming/en/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)

Siegel RM, Lenardo MJ. To B or not to B: TNF family signaling in lymphocytes. *Nat Immunol.* 2001; 2(7):577-578. (Biology)

von Bülow GU, Bram RJ. NF-AT activation induced by a CAML-interacting member of the tumor necrosis factor receptor superfamily. *Science.* 1997; 278(5335):138-141. (Biology)

Yan M, Wang H, Chan B, et al. Activation and accumulation of B cells in TACI-deficient mice. *Nat Immunol.* 2001; 2(7):638-643. (Biology)

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