

Technical Data Sheet

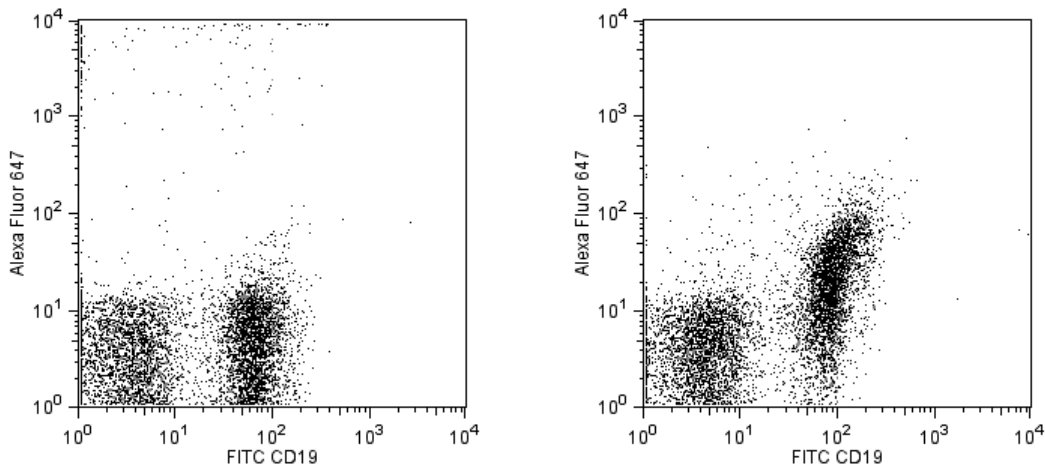
Alexa Fluor® 647 Rat anti-Mouse CD267

Product Information

Material Number:	558453
Alternate Name:	TACI
Size:	0.1 mg
Concentration:	0.2 mg/ml
Clone:	8F10
Immunogen:	Rat RBL
Isotype:	Rat IgG2a, κ
Reactivity:	Mouse
Storage Buffer:	Aqueous buffered solution containing ≤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 Alexa Fluor® 647-conjugated 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. 553141/553142). The cells were then stained with FITC-conjugated anti-mouse CD19 (Cat. No. 553785) and Alexa Fluor® 647-conjugated anti-mouse CD267 antibody (Clone 8F10, Cat. No. 558453; right panel) or Alexa Fluor® -conjugated rat IgG2a (Clone R35-95, Cat. No. 557690; 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 system.*

Preparation and Storage

The antibody was conjugated to Alexa Fluor® 647 under optimum conditions, and unreacted Alexa Fluor® 647 was removed. Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze.

Application Notes

Application

Flow cytometry	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.553141/553142).

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## Suggested Companion Products

Catalog Number	Name	Size	Clone
557690	Alexa Fluor® 647 Rat IgG2a, κ Isotype Control	0.1 mg	R35-95

## Product Notices

1. Please refer to [www.bdbiosciences.com/pharming/en/protocols](http://www.bdbiosciences.com/pharming/en/protocols) for technical protocols.
2. The Alexa Fluor®, Pacific Blue™, and Cascade Blue® dye antibody conjugates in this product are sold under license from Molecular Probes, Inc. for research use only, excluding use in combination with microarrays, or as analyte specific reagents. The Alexa Fluor® dyes (except for Alexa Fluor® 430), Pacific Blue™ dye, and Cascade Blue® dye are covered by pending and issued patents.
3. Alexa Fluor® 647 fluorochrome emission is collected at the same instrument settings as for allophycocyanin (APC).
4. 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.
5. For fluorochrome spectra and suitable instrument settings, please refer to our Multicolor Flow Cytometry web page at [www.bdbiosciences.com/colors](http://www.bdbiosciences.com/colors).
6. Alexa Fluor® is a registered trademark of Molecular Probes, Inc., Eugene, OR.

## 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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