Technical Data Sheet

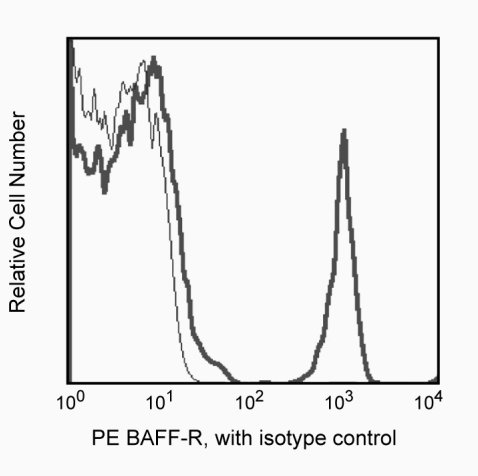
PE Mouse Anti-Human CD268 (BAFF Receptor)

Product Information

Material Number:	**558097**
Alternate Name:	BAFF receptor
Size:	0.1 mg
Concentration:	0.2 mg/ml
Clone:	11C1
Isotype:	Mouse (C57BL/6) IgG1, κ
Reactivity:	QC Testing: Human
Storage Buffer:	Aqueous buffered solution containing ≤0.09% sodium azide.

Description

Monoclonal antibody 11C1 reacts with the B cell activating factor receptor (BAFF-R), a type III transmembrane protein of approximately 184 residues. BAFF-R is one of the receptors for B-cell activating factor (BAFF), a member of the TNF family of proteins. BAFF is a key regulator for B cell differentiation and critical in regulating survival and activation of peripheral B cell populations. Experiments in the mouse model show that interaction of BAFF with BAFF-R promotes NF-κB activity. Overexpression of BAFF results in an expanded B cell compartment and autoimmunity in mice. Mice injected with BAFF-neutralizing-Fc (BAFF-R-Fc) protein showed reduced NF-κB activation, blocking BAFF-induced B cell proliferation. Reports suggest that the BAFF-BAFF-R interaction may lead to a better understanding of autoimmune disorders.



Profile of anti-human CD268 (BAFF receptor, clone 11C1) reactivity on 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 with R-PE under optimum conditions, and unconjugated antibody and free PE were removed.

Application Notes

Application

Flow cytometry	Routinely Tested

Suggested Companion Products

Catalog Number	Name	Size	Clone
554680	PE Mouse IgG1, κ Isotype Control	0.1 mg	MOPC-21
554656	Stain Buffer (FBS)	500 ml	(none)

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.

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3. For fluorochrome spectra and suitable instrument settings, please refer to our Multicolor Flow Cytometry web page at www.bdbiosciences.com/colors.
4. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.

References

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Kayagaki N, Yan M, Seshasayee D, et al. BAFF/BLyS receptor 3 binds the B cell survival factor BAFF ligand through a discrete surface loop and promotes processing of NF-kappaB2. *Immunity.* 2002; 17(4):515-524. (Biology)

Mackay F, Browning JL. BAFF: a fundamental survival factor for B cells. *Nat Rev Immunol.* 2002; 2(7):465-475. (Biology)

Schneider P, Tschopp J. BAFF and the regulation of B cell survival. *Immunol Lett.* 2003; 88(1):57-62. (Biology)

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Yan M, Brady JR, Chan B, et al. Identification of a novel receptor for B lymphocyte stimulator that is mutated in a mouse strain with severe B cell deficiency. *Curr Biol.* 2001; 11(19):1547-1552. (Biology)

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