Technical Data Sheet

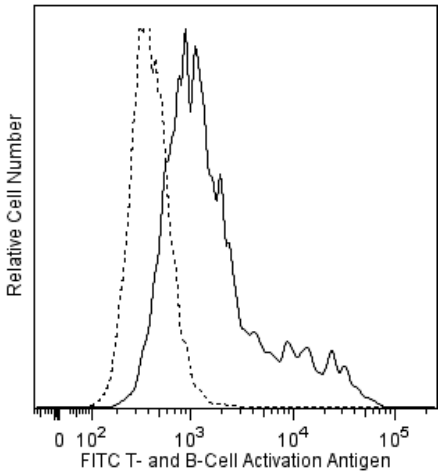
FITC Rat Anti-Mouse T- and B-Cell Activation Antigen

Product Information

Material Number:	**553666**
Alternate Name:	GL7
Size:	0.5 mg
Concentration:	0.5 mg/ml
Clone:	GL7
Immunogen:	In vitro-activated T-cell-depleted CBA/Ca mouse splenocytes
Isotype:	Rat (LOU) IgM, κ
Reactivity:	QC Testing: Mouse
Storage Buffer:	Aqueous buffered solution containing protein stabilizer and ≤0.09% sodium azide.

Description

The GL7 antibody reacts with a 35-kDa cell-surface protein found on T and B lymphocytes activated *in vitro*, on bone marrow Pre-B-II cells, germinal-center B cells, and a subpopulation of the thymocyte fraction expressing high density of CD3e. There is strain variability with respect to antigen distribution on thymocytes and Con A-activated spleen cells, with expression in BALB/c greater than that in C57BL/6.



Flow cytometric analysis for T- and B- Cell Activation Antigen in activated mouse spleen cells. *Concanavalin A-stimulated (3 days) mouse splenic leucocytes were preincubated with Purified Rat Anti-Mouse CD16/CD32 antibody (Mouse BD Fc Block™) (Cat. No. 553141/553142). The cells were then stained with either FITC Rat IgM, κ Isotype Control (Cat No. 553942; dashed line histogram) or with the FITC Rat Anti-Mouse T- and B- Cell Activation Antigen antibody (Cat No. 553666/562080; solid line histogram). The fluorescence histograms were derived from events with the forward and side light-scatter characteristics of viable lymphoblasts. Flow cytometric analysis was performed using a BD LSRFortessa™ Cell Analyzer 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 with FITC under optimum conditions, and unreacted FITC was removed.

Application Notes

Application

Flow cytometry	Routinely Tested

Suggested Companion Products

Catalog Number	Name	Size	Clone
553141	Purified Rat Anti-Mouse CD16/CD32 (Mouse BD Fc Block™)	0.1 mg	2.4G2
553142	Purified Rat Anti-Mouse CD16/CD32 (Mouse BD Fc Block™)	0.5 mg	2.4G2
553942	FITC Rat IgM, κ Isotype Control	0.25 mg	R4-22
554656	Stain Buffer (FBS)	500 ml	(none)

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Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.
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. For fluorochrome spectra and suitable instrument settings, please refer to our Multicolor Flow Cytometry web page at www.bdbiosciences.com/colors.
5. An isotype control should be used at the same concentration as the antibody of interest.

References

Han S, Dillon SR, Zheng B, Shimoda M, Schlissel MS, Kelsoe G. V(D)J recombinase activity in a subset of germinal center B lymphocytes. *Science.* 1997; 278(5336):301-305. (Biology)

Han S, Zheng B, Schatz DG, Spanopoulou E, Kelsoe G. Neoteny in lymphocytes: Rag1 and Rag2 expression in germinal center B cells. *Science.* 1996; 274(5295):2094-2097. (Biology)

Han S, Zheng B, Takahashi Y, Kelsoe G. Distinctive characteristics of germinal center B cells. *Semin Immunol.* 1997; 9(4):255-260. (Biology)

Hathcock KS, Pucillo CE, Laszlo G, Lai L, Hodes RJ. Analysis of thymic subpopulations expressing the activation antigen GL7. Expression, genetics, and function. *J Immunol.* 1995; 155(10):4575-4581. (Biology)

Laszlo G, Hathcock KS, Dickler HB, Hodes RJ. Characterization of a novel cell-surface molecule expressed on subpopulations of activated T and B cells. *J Immunol.* 1993; 150(12):5252-5262. (Immunogen)

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