

Technical Data Sheet

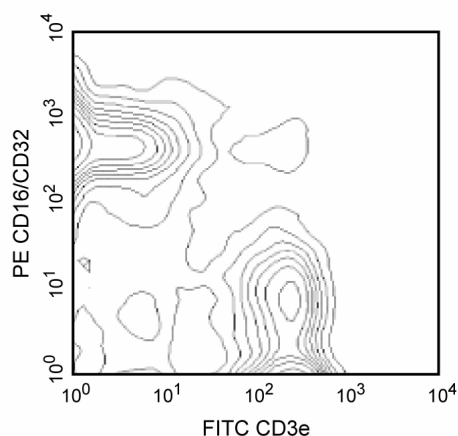
PE Rat Anti-Mouse CD16/CD32

Product Information

Material Number:	561727
Alternate Name:	FcγRIII/FcγRII; Fcgr3/Fcgr2
Size:	50 µg
Concentration:	0.2 mg/ml
Clone:	2.4G2
Immunogen:	Mouse BALB/c Macrophage J774
Isotype:	Rat (SD) IgG2b, κ
Reactivity:	QC Testing: Mouse
Storage Buffer:	Aqueous buffered solution containing ≤0.09% sodium azide.

Description

The 2.4G2 antibody reacts specifically with a common nonpolymorphic epitope on the extracellular domains of the mouse FcγIII and FcγII receptors. It has also been reported to bind the FcγI receptor (CD64) via its Fc domain. 2.4G2 mAb blocks non-antigen-specific binding of immunoglobulins to the FcγIII and FcγII, and possibly FcγI, receptors *in vitro* and *in vivo*. CD16 and/or CD32 are expressed on natural killer cells, monocytes, macrophages, dendritic cells (at low levels), Kupffer cells, granulocytes, mast cells, B lymphocytes, immature thymocytes, and some activated mature T lymphocytes.



Flow cytometric analysis of CD16/CD32 expression on mouse splenocytes. C57BL/6 splenocytes were simultaneously stained with FITC Hamster Anti-Mouse CD3e (Cat. No. 553061/553062/561827) and PE Rat Anti-Mouse CD16/CD32 (Cat. No. 553145/561727). The two-color dot plot depicting CD16/CD32 versus CD3e expression were derived from forward and side light-scatter characteristics of viable splenocytes. Flow cytometry was performed on a BD FACScan™ 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 R-PE under optimum conditions, and unconjugated antibody and free PE were removed.

Application Notes

Application

Flow cytometry	Routinely Tested
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Suggested Companion Products

Catalog Number	Name	Size	Clone
553989	PE Rat IgG2b, κ Isotype Control	0.1 mg	A95-1
554656	Stain Buffer (FBS)	500 mL	(none)
553061	FITC Hamster Anti-Mouse CD3e	0.1 mg	145-2C11
554657	Stain Buffer (BSA)	500 mL	(none)
553062	FITC Hamster Anti-Mouse CD3e	0.5 mg	145-2C11
561827	FITC Hamster Anti-Mouse CD3e	25 µg	145-2C11
553145	PE Rat Anti-Mouse CD16/CD32	0.2 mg	2.4G2

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561727 Rev. 2



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

References

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