Technical Data Sheet

PE-CF594 Rat Anti-Mouse IgM

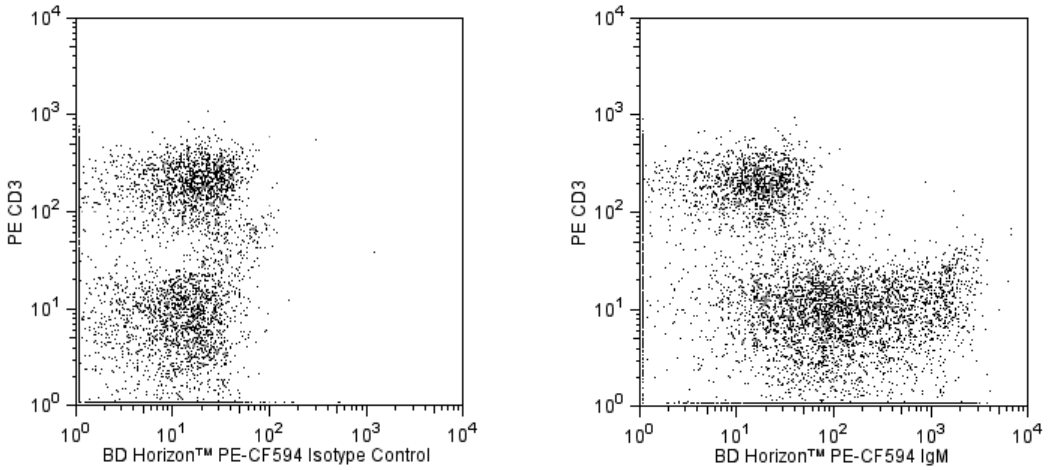
Product Information

Material Number:	**562565**
Alternate Name:	Ighm; Igh-M; Immunoglobulin M; Igh6; muH; immunoglobulin heavy constant mu
Size:	50 µg
Concentration:	0.2 mg/ml
Clone:	R6-60.2
Immunogen:	Pooled Mouse Ig
Isotype:	Rat (LOU) IgG2a, κ
Reactivity:	QC Testing: Mouse
Storage Buffer:	Aqueous buffered solution containing BSA and ≤0.09% sodium azide.

Description

The R6-60.2 antibody monoclonal antibody specifically binds to mouse Immunoglobulin M (IgM) of Igh-C[a] and Igh-C[b] haplotypes. It does not react with other Ig isotypes. The R6-60.2 antibody has not been shown to stimulate B-cell proliferation.

This antibody is conjugated to BD Horizon™ PE-CF594, which has been developed exclusively by BD Biosciences as a better alternative to PE-Texas Red®. PE-CF594 excites and emits at similar wavelengths to PE-Texas Red® yet exhibits improved brightness and spectral characteristics. Due to PE having maximal absorption peaks at 496 nm and 564 nm, PE-CF594 can be excited by the blue (488-nm), green (532-nm) and yellow-green (561-nm) lasers and can be detected with the same filter set as PE-Texas Red® (eg 610/20-nm filter).



Flow cytometric analysis of mouse IgM expression on mouse splenocytes. *Splenocytes from BALB/c mice were stained with PE Hamster anti-Mouse CD3 (Cat. No. 553064/553063/561824) and either with a BD Horizon™ PE-CF594 Rat IgG2a, κ Isotype Control (Cat. No. 562302, Left Panel) or with the BD Horizon™ PE-CF594 Rat anti-Mouse IgM antibody (Cat. No. 562565, Right Panel). Two-color flow cytometric dot plots showing the correlated expression of IgM (or Ig isotype control staining) and CD3 were derived from gated events with the light scattering characteristics of viable splenocytes. Flow cytometry was performed using a BD™ LSR II Flow Cytometry 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 BD Horizon™ PE-CF594 under optimum conditions, and unconjugated antibody and free PE-CF594 were removed.

Application Notes

Application

Flow cytometry	Routinely Tested

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Suggested Companion Products

Catalog Number	Name	Size	Clone
562302	PE-CF594 Rat IgG2a, κ Isotype Control	0.1 mg	R35-95
554656	Stain Buffer (FBS)	500 ml	(none)
553064	PE Hamster Anti-Mouse CD3e	0.2 mg	145-2C11
553063	PE Hamster Anti-Mouse CD3e	0.1 mg	145-2C11
561824	PE Hamster Anti-Mouse CD3e	25 µg	145-2C11

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
3. An isotype control should be used at the same concentration as the antibody of interest.
4. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.
5. Please observe the following precautions: Absorption of visible light can significantly alter the energy transfer occurring in any tandem fluorochrome conjugate; therefore, we recommend that special precautions be taken (such as wrapping vials, tubes, or racks in aluminum foil) to prevent exposure of conjugated reagents, including cells stained with those reagents, to room illumination.
6. 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.
7. For fluorochrome spectra and suitable instrument settings, please refer to our Multicolor Flow Cytometry web page at www.bdbiosciences.com/colors.
8. Texas Red is a registered trademark of Molecular Probes, Inc., Eugene, OR.
9. CF™ is a trademark of Biotium, Inc.
10. This product is provided under an Agreement between BIOTIUM and BD Biosciences. The manufacture, use, sale, offer for sale, or import of this product is subject to one or more patents or pending applications owned or licensed by Biotium, Inc. This product, and only in the amount purchased by buyer, may be used solely for buyer's own internal research, in a manner consistent with the accompanying product literature. No other right to use, sell or otherwise transfer (a) this product, or (b) its components is hereby granted expressly, by implication or by estoppel. This product is for research use only. Diagnostic uses require a separate license from Biotium, Inc. For information on purchasing a license to this product including for purposes other than research, contact Biotium, Inc., 3159 Corporate Place, Hayward, CA 94545, Tel: (510) 265-1027. Fax: (510) 265-1352. Email: btinfo@biotium.com.
11. Because of the broad absorption spectrum of the tandem fluorochrome, extra care must be taken when using multi-laser cytometers, which may directly excite both PE and CF™594.

References

BD Biosciences Pharmingen. Unpublished results. . (Immunogen)

Gavin AL, Duong B, Skog P, Ait-Azzouzene D, Greaves DR, Scott ML, Nemazee D. δBAFF, a splice isoform of BAFF, opposes full-length BAFF activity in vivo in transgenic mouse models. *J Immunol.* 2005; 75(1):319-328. (Clone-specific: ELISA)

Touma M, Keskin DB, Shiroki F, Saito I, Koyasu S, Reinherz EL, Clayton LK. Impaired B cell development and function in the absence of IκBNS. *J Immunol.* 2011; 187(8):3942-3952. (Clone-specific: Flow cytometry)

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