PE/Dazzle® 594 anti-mouse Fc?RI?

Catalog # / Size: 1271660 / 100 μg

1271655 / 25 μg

Clone: MAR-3

Isotype: Hamster IgG

Reactivity: Mouse

Preparation: The antibody was purified by affinity

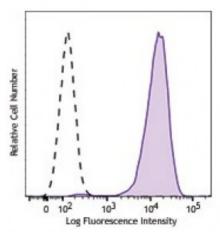
chromatography and conjugated with PE/Dazzle™ 594 under optimal conditions. The solution is free of unconjugated PE/Dazzle™ 594 and

unconjugated antibody.

Formulation: Phosphate-buffered solution, pH 7.2,

containing 0.09% sodium azide.

Concentration: 0.2



Mouse mast cell line MC/9 was stained with FcɛRlα (clone MAR-1) PE/Dazzle™ 594 (filled histogram) or Armenian hamster IgG PE/Dazzle™ 594 isotype control (open histogram).

Applications:

Applications: Flow Cytometry

Recommended

Usage:

Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is \leq 0.25 microg per million cells in 100 microL volume. It is recommended that the reagent be titrated for optimal performance for each

application.

* PE/Dazzle™ 594 has a maximum excitation of 566 nm and a maximum emission

of 610 nm.

Application Notes:

Additional reported applications (for relevant formats of this clone) include: depletion2, immunohistochemistry of frozen sections (OCT embedded2).

Application References:

1. Obata K, et al. 2007. Blood 110:913 (FC)

2. Sokol CL, et al. 2008. Nat. Immunol. 9:310 (FC, Deplete, IHC)

3. Chen J, et al. 2009. J. Biol. Chem.. 284:5763 (FC)

Description:

FceRl α is a transmembrane protein belonging to the Ig superfamily. FceRl α forms a tetrameric complex with one β and two γ -subunits. The FceRl complex plays an important role in triggering IgE-mediated allergic reactions. It is abundantly expressed on mast and basophils and up-regulated by the presence of IgE. Following stimulation via FceRl α , mast cells and basophils release bioactive chemical mediators such as histamine, resulting in the initiation of allergic reactions. Cross linking of the high-affinity receptor for IgE on tissue mast cells triggers immediate hypersensitivity with local symptoms. The MAR-1 monoclonal antibody reacts with the FceRl α subunit.

Antigen References: 1. Arinobu Y, et al. 2005. P. Natl. Acad. Sci. USA 102:18105.

References: 2. Yamaguchi M, et al. 2001. Int. Immunol. 13:843.