PerCP/Cy5.5 anti-mouse FcÎμRIα

Catalog # / 1271595 / 25 µg

Size: 1271600 / 100 µg

Clone: MAR-1

Isotype: Hamster IgG

Reactivity: Mouse

Preparation: The antibody was purified by affinity

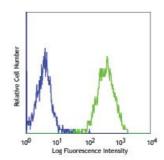
> chromatography and conjugated with PerCP/Cy5.5 under optimal conditions. The solution is free of unconjugated PerCP/Cy5.5 and unconjugated

antibody.

Phosphate-buffered solution, pH 7.2, Formulation:

containing 0.09% sodium azide.

Concentration: 0.2



Mouse mast cell line MC/9 stained

with MAR-1 PerCP/Cv5.5

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 ≤0.25 microg per million cells in 100 microL volume. It is recommended that the reagent be titrated for optimal

performance for each application.

* PerCP/Cy5.5 has a maximum absorption of 482 nm and a maximum emission

of 690 nm.

Application

Notes:

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

Application

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

References:

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:

Fc ϵ RI α is a transmembrane protein belonging to the Ig superfamily. Fc ϵ RI α forms a tetrameric complex with one β and two γ -subunits. The Fc ϵ RI 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 FcεRIα, 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 FcεRIα subunit.

Antigen

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

References:

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