Alexa Fluor® 647 anti-mouse FcÎμRIα

Catalog # / Size: 1271550 / 100 μg

1271545 / 25 μg

Clone: MAR-1

Isotype: Hamster IgG

Reactivity: Mouse

Preparation: The antibody was purified by affinity

chromatography, and conjugated with

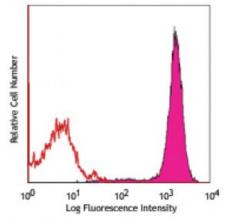
Alexa Fluor® 647 under optimal

conditions.

Formulation: Phosphate-buffered solution, pH 7.2,

containing 0.09% sodium azide.

Concentration: 0.5



Mouse mast cell line MC/9 stained with MAR-1 Alexa Fluor® 647

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.

* Alexa Fluor® 647 has a maximum emission of 668 nm when it is excited at 633

nm / 635 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:

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.