Alexa Fluor™ 488 anti-mouse Fc?RI?

Catalog # / Size: 1271645 / 25 μg

1271650 / 100 μg

Clone: MAR-1

Isotype: Hamster IgG

Reactivity: Mouse

Preparation: The antibody was purified by affinity

chromatography and conjugated with

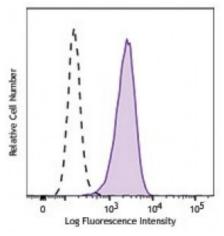
Alexa Fluor® 488 under optimal

conditions.

Formulation: Phosphate-buffered solution, pH 7.2,

containing 0.09% sodium azide.

Concentration: 0.2



Mouse mast cell line MC/9 was stained with $FceRl\alpha$ (clone MAR-1) Alexa Fluor® 488 (filled histogram) or Armenian hamster IgG Alexa Fluor® 488 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 ≤0.5 microg per million cells in 100 microL volume. It is recommended that the reagent be titrated for optimal performance for each

application.

* Alexa Fluor® 488 has a maximum emission of 519 nm when it is excited at 488 $\,$

This product is subject to proprietary rights of Sirigen Inc. and is made and sold under license from Sirigen Inc. The purchase of this product conveys to the buyer a non-transferable right to use the purchased product for research purposes only. This product may not be resold or incorporated in any manner into another product for resale. Any use for therapeutics or diagnostics is strictly prohibited. This product is covered by U.S. Patent(s), pending patent applications and foreign

equivalents.

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:

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