

Product Data Sheet

Alexa Fluor® 647 anti-mouse FcεRlα

Catalog # / Size: 134309 / 25 µg

134310 / 100 μg

Clone: MAR-1

Isotype: Armenian Hamster IgG

Reactivity: Mouse

Preparation: The antibody was purified by affinity chromatography, and conjugated with

Alexa Fluor® 647 under optimal conditions. The solution is free of

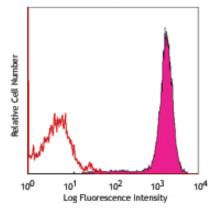
unconjugated Alexa Fluor® 647.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

Concentration: 0.5 mg/ml

Storage: The antibody solution should be stored undiluted at 4°C and protected from

prolonged exposure to light. Do not freeze.



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

Applications:

Applications: FC - Quality tested

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For immunofluorescent staining, the suggested use of this reagent is ≤0.25 μg per million cells in 100 μl 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.

** Alexa Fluor® 647 is a registered trademark of Molecular Probes, Inc. Alexa Fluor® 647 dye antibody conjugates are sold under license from Molecular Probes, Inc. for research use only, except for use in combination with

microarrays and high content screening, and are covered by pending and issued patents.

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)

Sokol CL, et al. 2008. Nat. Immunol. 9:310 (FC Deplete IHC)
Chen J, et al. 2009. J. Biol. Chem.. 284:5763 (FC)

Description: FceRIa is a transmembrane protein of Ig super family member. FceRIa 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 FceRla, mast cells and basophils release bioactive chemical mediators such as histamine, resulting in the initiation of

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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 FceRIa subunit.

Antigen References: 1. Arinobu Y, et al. 2005. Proc Natl Acad Sci USA. 102(50):18105

2. Yamaguchi M, et al. 2001. Int Immunol. 13(7):843

Related Products: Product Clone Application Alexa Fluor® 647 Armenian Hamster IgG Isotype Ctrl **HTK888**

Cell Staining Buffer RBC Lysis Buffer (10X)

TruStain fcX™ (anti-mouse CD16/32)

FC, ICFC FC, ICC, ICFC FC, ICFC



