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Product Data Sheet

Biotin anti-mouse FcεRIα

Catalog # / Size: 134303 / 50 µg
134304 / 500 µg

Clone: MAR-1

Isotype: Armenian Hamster IgG

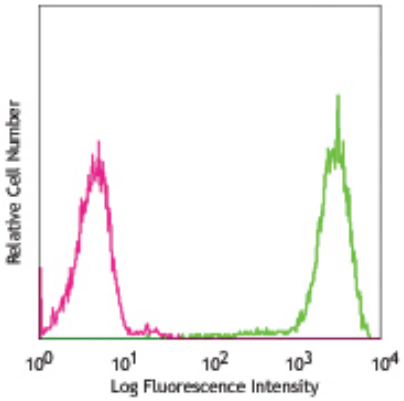
Reactivity: Mouse

Preparation: The antibody was purified by affinity chromatography, and conjugated with biotin under optimal conditions. The solution is free of unconjugated biotin.

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 biotinylated MAR-1, followed by Sav-PE

Applications:

Applications: FC - *Quality tested*
IHC - Reported in the literature

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.*

Application Notes: Additional reported applications (for relevant formats of this clone) include: *depletion[2], immunohistochemistry of frozen sections (OCT embedded[2]).*

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: 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 FceRIa, 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 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
Biotin Armenian Hamster IgG Isotype Ctrl	HTK888	FC, ICFC
Cell Staining Buffer		FC, ICC, ICFC
RBC Lysis Buffer (10X)		FC, ICFC
TruStain fcX™ *(anti-mouse CD16/32)*	*93*	*FC*

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