

Product Data Sheet

PE anti-mouse FcεRIα

Catalog # / Size: 134307 / 50 µg
134308 / 200 µg

Clone: MAR-1

Isotype: Armenian Hamster IgG

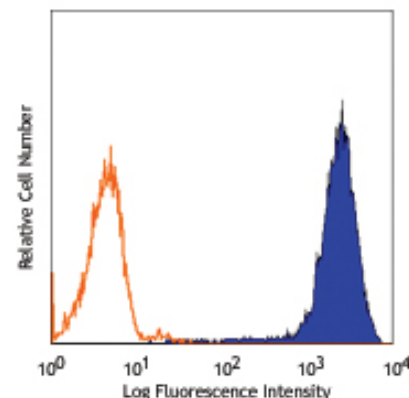
Reactivity: Mouse

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

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

Concentration: 0.2 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 PE

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.

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)
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)
4. Jones TG, *et al.* 2010. *J. Immunol.* 185:1804. PubMed
5. Schafer B, *et al.* 2013. *J Allergy Clin Immunol.* 131:541. PubMed
6. Zhang M, *et al.* 2013. *Urology.* 81:465. PubMed

Description: FcεRIα is a transmembrane protein of Ig super family member. FcεRIα forms a tetrameric complex with one β and two γ-subunits. The FcεRI 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 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
	PE 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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