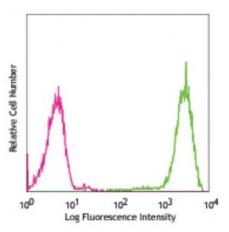
Product Data Sheet

Biotin anti-mouse FcεRIα

Catalog # / Size:	1271520 / 500 μg 1271515 / 50 μg
Clone:	MAR-1
Isotype:	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



Mouse mast cell line MC/9 stained with biotinylated MAR-1, followed by Sav-PE

Applications:

Applications:	Flow Cytometry, Immunohistochemistry
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.
Application Notes:	Additional reported applications (for relevant formats of this clone) include: depletion2, immunohistochemistry of frozen sections (OCT embedded2).
Application References:	1. Obata K, <i>et al.</i> 2007. <i>Blood</i> 110:913 (FC) 2. Sokol CL, <i>et al.</i> 2008. <i>Nat. Immunol.</i> 9:310 (FC, Deplete, IHC) 3. Chen J, et al. 2009. <i>J. Biol. Chem</i> 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.

expressed on mast and basophils and up-regulated by the presence of IgE. Following stimulation via $Fc\epsilon RI\alpha$, 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 $Fc\epsilon RI\alpha$ 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.

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