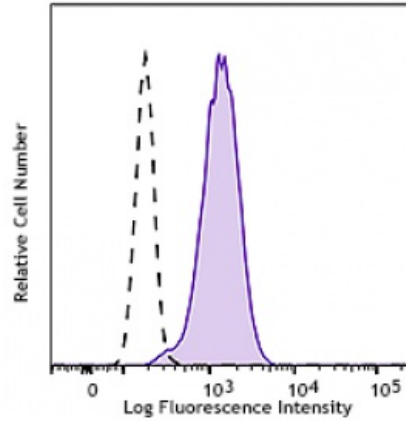


Brilliant Violet 510™ anti-mouse FcεRIα

Catalog # / Size: 1271635 / 50 µg
Clone: MAR-1
Isotype: Hamster IgG
Reactivity: Mouse
Preparation: The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 510™ under optimal conditions. The solution is free of unconjugated Brilliant Violet 510™ and unconjugated antibody.
Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA).
Concentration: 0.5 mg/ml



Mouse mast cell line MC/9 was stained with FcεRIα (clone MAR-1) Brilliant Violet 510™ (filled histogram) or Armenian hamster IgG Brilliant Violet 510™ 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 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

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Application Notes: Additional reported applications (for relevant formats of this clone) include: depletion², immunohistochemistry of frozen sections (OCT embedded²).

Application References:
 1. Arinobu Y, *et al.* 2005. *P. Natl. Acad. Sci. USA* 102:18105.
 2. Yamaguchi M, *et al.* 2001. *Int. Immunol.* 13:843.

Description: FcεRIα is a transmembrane protein belonging to the Ig superfamily. 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 1. Arinobu Y, *et al.* 2005. *P. Natl. Acad. Sci. USA* 102:18105.

References: 2. Yamaguchi M, *et al.* 2001. *Int. Immunol.* 13:843.