

## Purified Anti-Mouse FcεR1α Antibody[MAR-1], Functional Grade

catalog number: E-AB-F11880

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

### Description

<b>Reactivity</b>	Mouse
<b>Immunogen</b>	Recombinant Mouse FcεR1α protein
<b>Host</b>	Armenian Hamster
<b>Isotype</b>	Armenian Hamster IgG
<b>Clone</b>	MAR-1
<b>Purification</b>	>98%, Protein A/G purified
<b>Buffer</b>	Sterile PBS, pH 7.2. < 1.0 EU per mg of the antibody as determined by the LAL method

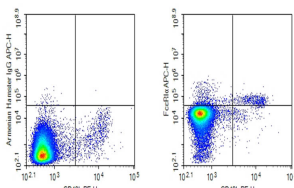
### Applications

**FCM**

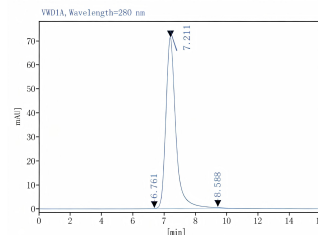
### Recommended Dilution

2 µg/mL (0.5×10<sup>6</sup> - 1×10<sup>6</sup> cells)

### Data



C57/BL6 Mouse bone marrow were stained with 0.2 µg Purified Anti-Mouse FcεR1α Antibody[MAR-1], Functional Grade (Right) and 0.2 µg Armenian Hamster IgG, κ Isotype Control (Left), followed by APC-conjugated Goat Anti-Armenian Hamster IgG Secondary Antibody, then anti-Mouse CD49b PE-conjugated Monoclonal Antibody.



Monomer purity ≥95% as determined by analytical size-exclusion chromatography (SEC)

### Preparation & Storage

**Storage**

Store at 4°C valid for 12 months or -20°C valid for long term storage, avoid freeze / thaw cycles. This preparation contains no preservatives, thus it should be handled under aseptic conditions.

**Shipping**

Ice bag

### Background

FcεR1α is a transmembrane protein belonging to the Ig superfamily. FcεR1α forms a tetrameric complex with one β and two γ-subunits. The FcεR1 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 FcεR1 α, 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 FcεR1α subunit.

None (Azide-Free, Low Endotoxin) are perfectly suited to be used in culture or in vivo (for nonhuman studies) for functional assays blocking, neutralizing, activation or depletion where the presence of azide may damage cells or exogenous endotoxin may signal or activate cells.

### For Research Use Only

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