

Anti-FcεR1 alpha [Mar-1] Standard Size Ab01187-22.0

Isotype and Format: Hamster (Armenian) IgG, Lambda

Clone Number: Mar-1

Alternative Name(s) of Target: Fcεr1a; Fc epsilon RI alpha; FcεRIa; FcεRI alpha; FcεRI-α; high affinity IgE receptor; High affinity immunoglobulin epsilon receptor subunit alpha; Fcε1a; Fc-epsilon RI-alpha; FcεRI; IgE Fc receptor subunit alpha

UniProt Accession Number of Target Protein: P20489

Published Application(s): deplete, IP, FC, IHC

Published Species Reactivity: Mouse

Immunogen:

Specificity: This antibody specifically targets the non-signalling alpha chain of the FcεR1 complex.

Application Notes: This antibody has been used in flow cytometric analysis of FcεR1 alpha cell surface expression by basophils (Min et al, 2004; Chen et al, 2009), and immunohistochemical analysis of epidermal sheets (Holzmann et al, 2004). It has also been used in immunoprecipitation analysis of cell lysates from lung cDCs and MC/9 mast cells (Grayson et al, 2007). In vitro incubation of basophils with this antibody blocks subsequent MAR-1 staining, but does not activate basophil IL-4 production (Sokol et al, 2008). Intravenous treatment of mice with this antibody results in basophil depletion in peripheral blood, spleen, bone marrow and liver, but not skin or intraperitoneal mast cell depletion (Sokol et al, 2008). Following treatment with this antibody, basophil-depleted mice display impaired Th2 differentiation upon papain immunisation (Sokol et al, 2008). However, MAR-1 treated mice respond normally to high-dose intravenous Ig in both the K/BxN serum transfer arthritis and collagen-induced arthritis models, despite basophil depletion (Campbell et al, 2014).

Antibody First Published in: Holzmann et al. A model system using tape stripping for characterization of Langerhans cell-precursors in vivo. J Invest Dermatol. 2004 May;122(5):1165-74. [PMID:15140219](#)

Note on publication: Describes the original use of this antibody in immunohistochemical analysis of epidermal sheets.

Product Form

Size: 200 µg Purified antibody.

Purification: Protein A affinity purified

Supplied In: PBS with 0.02% Proclin 300.

Storage Recommendation: Store at 4°C for up to 3 months. For longer storage, aliquot and store at -

20°C.

Concentration: 1 mg/ml.

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.