TECHNICAL DATA SHEET

In Vivo Ready™ Anti-Mouse Fc epsilon Receptor I al-

Catalog Number: 40-5898

PRODUCT INFORMATION

Contents: In Vivo Ready™ Anti-Mouse Fc epsilon Receptor I

Isotype: Armenian Hamster IgG

Concentration: 2 mg/mL

Clone: MAR-1

Reactivity: Mouse

Formulation: 10 mM NaH2PO4, 150 mM NaCl, pH7.2

Endotoxin Level: Less than or equal to 0.01 EU/ug, as determined by the LaL assay

DESCRIPTION

The MAR-1 antibody reacts with the Fc epsilon Receptor I alpha chain (FceRIa), a transmembrane protein member of the Ig superfamily. This chain, together with a beta chain and two gamma chains form a tetrameric complex that supports IgE-mediated signaling and subsequent release of chemical mediators of allergy and immediate hypersensitivity. FceR1a is upregulated in the presence of IgE on those cell types which express it, such as Mast cells and Basophils.The MAR-1 antibody is widely used both in flow cytometry and for depletion of cells in vitro / in vivo.

PREPARATION & STORAGE

This monoclonal antibody preparation was purified from tissue culture supernatant via affinity chromatography. For In Vivo Ready™ (IVR) products, each preparation is also evaluated for endotoxin levels using the LAL assay. It is recommended to store the product undiluted at 4°C. Do not freeze.

APPLICATION NOTES

This purified format is guaranteed to be >90% pure as determined by SDS-PAGE analysis. Citations are provided as a convenience to you - please consult Materials and Methods sections for additional details about the use of any product in these publications.

REFERENCES

Mukai K, BenBarak MJ, Tachibana M, Nishida K, Karasuyama H, Taniuchi I, and Galli SJ. 2012. Blood. 120: 76-85. (Flow cytometry)Smith KA, Harcus Y, Garbi N, Hammerling GJ, MacDonald AS, and Maizels RM. 2012. Infect. Immun. 80: 3481-3489. (in vivo depletion)Larson D, Hubner MP, Torrero MN, Morris CP, Brankin A, Swierczewski BE, Davies SJ, Vonakis BM, and Mitre E. 2012. J. Immunol. 188: 4188-4199. (in vitro activation)Khodoun M, Krishnamurthy D, Strait R, Kucuk Y, and Finkelman F. 2011. J. Immunol. 186: 151.4. (in vitro depletion)

NOTE: Please choose the appropriate format for each application. Citations are provided as a convenience to you; please consult Materials and Methods sections for additional details about the use of any product in these publications.