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30-1985: FITC Conjugated Anti-IgE Monoclonal Antibody (Clone:BE5)

Clonality: Monoclonal

Clone Name: BE5
Application: FACS
Reactivity: Human
Conjugate: FITC
Gene: IGHE
Uniprot ID: P01854

Alternative Name: Immunoglobulin heavy constant epsilon

Isotype: Mouse IgG1

Immunogen Information: Purified human IgE.

Description

Immunoglobulin E (IgE) is a 180 kDa soluble protein serving as an antigen-specific unit of mast cell effector mechanisms. IgE has the lowest serum concentration of all immunoglobulins (approximately 0.5 mg/l) in healthy individuals, but upon allergen challenge its concentration in blood increases dramatically. Although biological survival of free IgE is very short (T1/2 = 2 days), it is stabilized after binding to its high affinity receptor. Unlike IgM- IgG- and IgA-committed B cells, IgE-switched B cells do not undergo clonal expansion.

Product Info

Amount: 0.1 mg

Content: 0.1 mg/ml, Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide

Storage condition: Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light.

Application Note

Flow cytometry: Recommended dilution: 5 µg/ml.

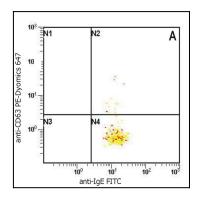


Figure 1: Flow Cytometry analysis of basophil activation upon stimulation of normal (heparin-treated) whole blood with combination of IL-3 and Goat anti-IgE polyclonal antibody. Combination of anti-human IgE (BE5) FITC and anti-human CD63 (MEM-259) PE-Dyomics 647) was used (analysis in basophil window). Fig. 1A - staining of non-stimulated (control) sampleFig. 1B - staining of IgE stimulated sample