

30-2516: Anti-Human IgE Biotin (Clone : BE5)

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| Clonality : | Monoclonal |
| Clone Name : | BE5 |
| Application : | ELISA, FACS |
| Reactivity : | Human |
| Conjugate : | Biotin |
| Alternative Name : | Immunoglobulin E |
| 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 ($T_{1/2} = 2$ 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.

Specificity : The antibody BE5 reacts with human IgE; it recognizes an epitope different from the ones recognized by 4G7 and 4H10 antibodies to IgE.

Product Info

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| Amount : | 0.1 mg |
| Purification : | The purified antibody is conjugated with biotin-LC-NHS under optimum conditions. The reagent is free of unconjugated biotin. |
| Content : | 1 mg/ml, Formulation : Phosphate buffered saline (PBS) solution with 15 mM sodium azide |
| Storage condition : | Store at 2-8°C. Do not freeze. |

Application Note

Flow cytometry: Recommended dilution: 1-12 $\mu\text{g/ml}$

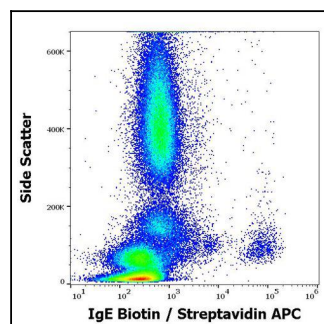


Figure 1 : Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human IgE (BE5) Biotin antibody (concentration in sample 4 $\mu\text{g/ml}$) Streptavidin APC.

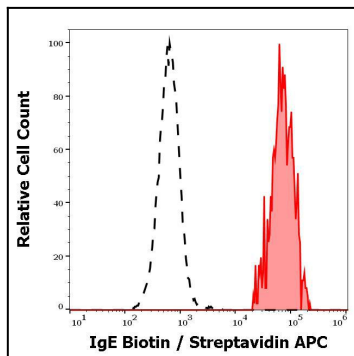


Figure 2 : Separation of human IgE positive basophil granulocytes (red-filled) from neutrophil granulocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human IgE (BE5) Biotin antibody (concentration in sample 4 µg/ml) Streptavidin APC.