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30-2864: Anti-Human IgE APC MAb(Clone :4H10)

Clonality :	Monoclonal
Clone Name :	4H10
Application :	FACS
Reactivity :	Human
Conjugate :	APC
Isotype :	Mouse IgG1
Immunogen Information :	Purified human IgE.

Description

Specificity: The mouse monoclonal antibody 4H10 reacts with human IgE; it recognizes an epitope different from the ones recognized by BE5 and 4G7 antibodies to IgE. The epitope is located within the amino acids 267-279 (TWLEDGQVMDVDL).

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
Purification :	Purified antibody is conjugated with activated allophycocyanin (APC) under optimum conditions and unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.
Content :	0.1 mg/ml Formulation: Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Storage condition :	Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.

Application Note

Flow cytometry: Recommended dilution: 0.5-3 µg/ml

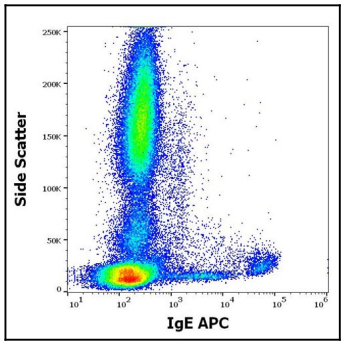


Fig 1: Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human IgE (4H10) APC antibody (concentration in sample 9 Î¼g/ml).

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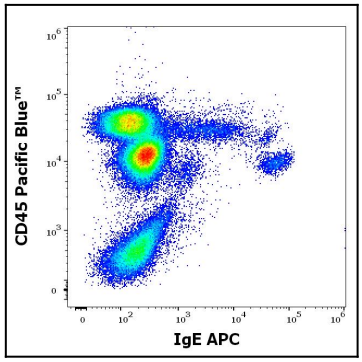


Fig 2: Flow cytometry multicolor surface staining of human leukocytes stained using anti-human IgE (4H10) APC antibody (concentration in sample 9 Î¼g/ml) and anti-human CD45 (MEM-28) APC antibody (10 Î¼l reagent / 100 Î¼l of peripheral whole blood).

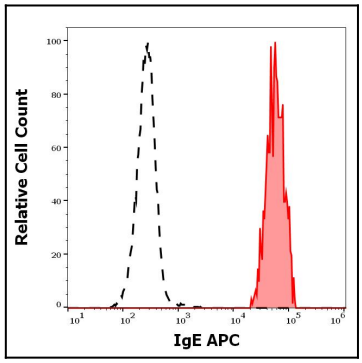


Fig 3: Separation of human IgE positive CD45dim basophil granulocytes (red-filled) from neutrophil granulocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human IgE (4H10) APC antibody (concentration in sample 9 Î¼g/ml).

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