

Mouse anti-Human IgE Antibody | anti-IgE antibody

Anti-Hu IgE APC

CATALOG # AAA129336	HOST Mouse	REACTIVITY Human	APPLICATIONS Flow Cytometry, Functional Assay
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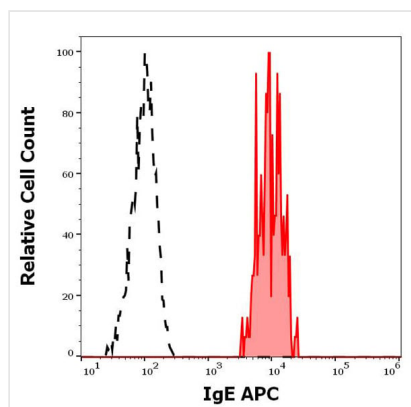
PRODUCT SYNONYMS

IgE; Anti-Hu IgE APC; Immunoglobulin E; anti-IgE antibody

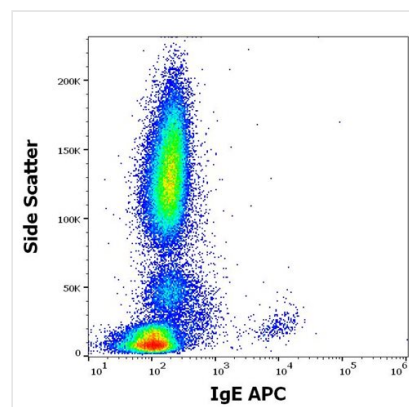
PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Isotype	Mouse IgG1
Clone Number	BE5
Specificity	The antibody BE5 reacts with human IgE; it recognizes an epitope different from the ones recognized by 4G7.325 and 4H10 antibodies to IgE.
Purity/Purification	Purified antibody is conjugated with activated allophycocyanin (APC) under optimum conditions and unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.
Form/Format	Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Concentration	0.1mg/ml (varies by lot)
Applicable Applications for anti-IgE antibody	FCM/FACS (Flow Cytometry)
Immunogen	Purified human IgE.
Conjugation	APC
Preparation and Storage	Store at 2-8 degree C. Protect from prolonged exposure to light. Do not freeze.

IMAGES


FCM/FACS (Flow Cytometry)

Separation of human IgE positive basophils (red-filled) from lymphocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human IgE (BE5) APC antibody (10ul reagent/100ul of peripheral whole blood).


FCM/FACS (Flow Cytometry)

Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human IgE (BE5) APC antibody (10ul reagent/100ul of peripheral whole blood).

ADDITIONAL INFORMATION

Related Product Information for anti-IgE antibody	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.
References	*Franklin EC: Structure and function of immunoglobulins. Acta Endocrinol Suppl (Copenh). 1975;194:77-95., URL: https://www.ncbi.nlm.nih.gov/pubmed/47690 ordinalp,*Fuller JM, Keyser JW: Serum immunoglobulins after surgical operation. Clin Chem. 1975 May;21(6):667-71., URL: https://www.ncbi.nlm.nih.gov/pubmed/1122610 ordina,*Balogh Z, Merétey K, Falus A, Bozsóky S: Serological abnormalities in juvenile chronic arthritis: a review of 46 cases. Ann Rheum Dis. 1980 Apr;39(2):129-34., URL: https://www.ncbi.nlm.nih.gov/pubmed/6966908 ordina,*Gould HJ, Beavil RL, Vercelli D: IgE isotype determination: epsilon-germline gene transcription, DNA recombination and B-cell differentiation. Br Med Bull. 2000;56(4):908-24., URL: https://www.ncbi.nlm.nih.gov/pubmed/11359628?ordin,*Brinkmann V, Heusser CH: T cell-dependent differentiation of human B cells into IgM, IgG, IgA, or IgE plasma cells: high rate of antibody production by IgE plasma cells, but limited clonal expansion of IgE precursors. Cell Immunol. 1993 Dec;152(2):323-32., URL: https://www.ncbi.nlm.nih.gov/pubmed/8258141 ordina, *Kaulfurst-Soboll H, Mertens M, Brehler R, von Schaewen A: Reduction of cross-reactive carbohydrate determinants in plant foodstuff: elucidation of clinical relevance and implications for allergy diagnosis. PLoS One. 2011 Mar 14;6(3):e17800., URL: http://www.ncbi.nlm.nih.gov/pubmed/21423762,*Maerle AV, Simonova MA, Pivovarov VD, Voronina DV, Drobyazina PE, Trofimov DY, Alekseev LP, Zavriev SK, Ryazantsev DY: Development of the covalent antibody-DNA conjugates technology for detection of IgE and IgM antibodies by immuno-PCR. PLoS One 2019 Jan 4;14(1):e0209860., URL: https://pubmed.ncbi.nlm.nih.gov/30608947/,

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/mouse-human-antibody/ige/129336>