



1F-326-C025

Monoclonal Antibody to IgE Fluorescein (FITC) conjugated (0.025 mg)

Clone:	4H10
Isotype:	Mouse IgG1
Specificity:	The antibody 4H10 reacts with human IgE; it recognizes an epitope different from the ones recognized by BE5 and 4G7 antibodies to IgE.
Regulatory Status:	RUO
Immunogen:	Purified human IgE.
Species Reactivity:	Human
Preparation:	The purified antibody is conjugated with Fluorescein isothiocyanate (FITC) under optimum conditions. The reagent is free of unconjugated FITC.
Concentration:	0.1 mg/ml
Storage Buffer:	The reagent is provided in stabilizing phosphate buffered saline (PBS) solution containing 15mM sodium azide.
Storage / Stability:	Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light. Do not use after expiration date stamped on vial label.
Usage:	The reagent is designed for Flow Cytometry analysis. Suggested working dilution is 2-5 µg/ml. Indicated dilution is recommended starting point for use of this product. Working concentrations should be determined by the investigator.
Expiration:	See vial label
Lot Number:	See vial label
Background:	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.

For laboratory research only, not for drug, diagnostic or other use.



Antibodies

References:

*Franklin EC: Structure and function of immunoglobulins. Acta Endocrinol Suppl (Copenh). 1975;194:77-95.
*Fuller JM, Keyser JW: Serum immunoglobulins after surgical operation. Clin Chem. 1975 May;21(6):667-71.
*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.
*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.
*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.
*1053;1057;
1040;1083;1103;1093;1085;1086;1074;1080;1095;,
1042;1042; 1071;1085;1095;1077;1085;1082;1086;,
1045;1043; 1040;1089;1080;1088;1103;1085;,
1042;1055;
1052;1072;1088;1090;1080;1085;1086;1074;1080;1095;,
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1043;1086;1083;1091;1073;1086;1074;1080;1095;:
1042;1099;1103;1074;1083;1077;1085;1080;1077;
IgE-1087;1086;1079;1080;1090;1080;1074;1085;1099;1093;
1083;1077;1081;1082;1086;1094;1080;1090;1086;1074;
1082;1088;1086;1074;1080;
1089;1080;1085;1090;1077;1090;1080;1095;1077;1089;1082;#
1087;1077;1087;1090;1080;1076;1086;1084; 1080;
1084;1086;1085;1086;1082;1083;1086;1085;1072;1083;1100;#
1072;1085;1090;1080;1090;1077;1083;1072;1084;1080;.
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