

anti-human IgE

Monoclonal Antibody 4G7 to IgE (Human)

Cat-No: 21389931

100 µg in 100 µl

Clone: 4G7

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

Isotype subclass: Mouse IgG

Purity: > 95% (by SDS-PAGE)

Form: Purified from ascites by precipitation methods followed by ion exchange chromatography.

Appearance: Clear colourless solution.

Physical state: Liquid

Buffer/Additives/Preservative: PBS, pH 7.2, containing 0.09% sodium azide.

Expiration date: The reagent is stable until the expiry date stated on the vial label.

Storage conditions: Store at 4 °C. For long-term storage aliquot and store at -20°C. Avoid freeze/thaw cycles.

Application: ELISA

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.

References: Brinkmann V, Heusser CH.: Cell Immunol. 1993 Dec;152(2):323-32.

Warning: Sodium azide is harmful if swallowed (R22). Keep out of reach of children (S2). Keep away from food, drink and animal feeding stuff (S13). Wear suitable protective clothing (S36). If swallowed, seek medical advice immediately and show this container or label (S46). Contact with acids liberates very toxic gas (R32). Azide compounds should be flushed with large volumes of water during disposal to avoid deposits in lead or copper plumbing where explosive conditions can develop.

This material is offered for **research only**. Not for use in human. For in vitro use only. ImmunoTools will not be held responsible for patent infringement or other violations that may occur with the use of our products.

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