

Anti-IgE [TES-C21] Standard Size Ab00497-10.6

This is a Fab fragment with a his-tag.

This chimeric human antibody was made using the variable domain sequences of the original Mouse IgG format, for improved compatibility with existing reagents, assays and techniques.

Isotype and Format: Human Fab fragment, His-Tagged, Kappa

Clone Number: TES-C21

Alternative Name(s) of Target: Immunoglobulin E

UniProt Accession Number of Target Protein:

Published Application(s): Block, ELISA

Published Species Reactivity: Human

Immunogen: Polyclonal human IgE.

Specificity:

Application Notes: The antibody binds specifically to IgE, an immunoglobulin isotype secreted by upon stimulation of B cells by interleukins Il-4 and IL-13. IgE provides immunity to parasites such as helminths and Plasmodium falciparum. The immunoglobulin also plays a central role in the development of Type I hypersensitivity reactions and allergic diseases such as asthma, sinusitis and food allergies. These allergic responses are triggered by the binding of IgE to the high affinity receptor FcεRI, expressed on the surface of basophils and mast cells. Binding of IgE causes cross-linking of the receptor, inducing degranulation and release of inflammatory mediators, particularly of histamine. The monoclonal antibody TES-C21 binds to secreted IgE and to IgE expressed on the surface of IgE-producing B cells, thereby inhibiting IgE binding to FcεRI and the release of histamine from mast cells. The monoclonal antibody can have diagnostic applications, such as for identifying and quantifying IgE-expressing B cells and IgE levels in serum samples, and therapeutic applications in the treatment of allergies. Furthermore, the antibody can conjugated to cytotoxic drugs and deliver them specifically to IgE-producing B cells.

Antibody First Published in: Kolbinger F, Saldanha J, Hardman N, Bendig MM. Humanization of a mouse anti-human IgE antibody: a potential therapeutic for IgE-mediated allergies. Protein Eng. 1993 Nov;6(8):971-80. [PMID:8309946](#)

Note on publication: Describes the therapeutic potential of the murine monoclonal antibody TES-C21 in the treatment of IgE-mediated allergies, and the production of a humanized version of the antibody to reduce the immunogenicity in humans.

Product Form

Size: 200 µg Purified antibody.

Purification: Purified by Immobilized Metal Affinity Chromatography

Supplied In: PBS with 0.02% Proclin 300.

Storage Recommendation: Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C.

Concentration: 1 mg/ml.

Important note - This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.