

Monoclonal Antibody Anti-Human IgE (Dε2)

PN A40174 – Purified – Freeze-dried – 0.2 mg – Clone E124.2.8

Analyte Specific Reagent.

Analytical and performance characteristics are not established.

SPECIFICITY

The anti-IgE E124.2.8 monoclonal antibody (mAb) binds specifically to the Dε2 constant domain of human Immunoglobulin E (IgE) (Dε2 is the heat labile region of IgE).

The anti-IgE mAb binds to circulating IgE as well as to IgE antibodies bound to the low affinity receptor FcεRII (expressed mainly on eosinophils, B lymphocytes), or to the high affinity receptor FcεRI (expressed on mast cells, basophils, monocytes and monocytes-derived cells). The anti-IgE antibody induces the histamine release from basophils (1, 2). However, it is known in the literature information that basophils from 10% to 20% of donors completely fail to release histamine in response to anti-IgE, designated anti-IgE "non releasers" (3-5).

REAGENT

Anti-Human IgE (Dε2)
Unconjugated Antibody
PN A40174 - Purified - Freeze-dried –
0.2 mg

Clone	E124.2.8
Isotype	IgG1 kappa, Mouse
Immunogen	Purified Human IgE kappa saturated anti-IgE (Dε1 site) with monoclonal antibodies
Hybridoma Source	X63 x balb/c Ascites fluid or supernatant of in vitro cultured hybridoma cells.
Purification	Affinity chromatography

REAGENT CONTENTS

This antibody is provided in phosphate-buffered saline and 1 mg/mL bovine serum albumin.

STATEMENTS OF WARNING

1. Specimens, samples and all material coming in contact with them should be considered potentially infectious and disposed of with proper precautions.
2. Never pipet by mouth and avoid contact of samples with skin and mucous membranes.
3. Do not use antibody beyond the expiration date on the label.
4. Avoid microbial contamination of reagents or incorrect results might occur.
5. Use good laboratory practices when handling this reagent.
6. Any change in the physical appearance of the reagents may indicate deterioration and the reagent should not be used.

STORAGE AND HANDLING CONDITIONS AND STABILITY

This reagent is stable up to the expiration date when stored at 2 – 8°C. Do not freeze. This monoclonal antibody is provided in freeze-dried form and must be reconstituted with 1 mL of distilled water. Bring reagent to 18 – 25°C prior to use. No preservative has been added.

SELECTED RESEARCH REFERENCES

1. Anfosso, F., Demeure, C., Delaage, M., Cheballah, R., Bellot, F. & Bourgois, A., "Conformational differences of human IgE on hydrophobic and hydrophilic solid phases detected by monoclonal antibodies", 1987, Molecular Immunology, 24, 1129-1134.

2. Turner, R., Kinet J.P., "Signalling through the high-affinity IgE receptor Fc epsilonRI", 1999, Nature. 25, 402, 6760 Suppl., B24-30.
3. Yamaguchi, M., Hirai, K., Ohta, K., Suzuki, K., Kitani, S., Takaishi, T., Ito, K., Ra, C., Morita, Y., "Nonreleasing basophils convert to releasing basophils by culturing with IL-3", 1996, J. Allergy Clin. Immunol., Jun;97(6):1279-1287.
4. Kopley, CL., Youssef, L., Andrews, RP., Wilson, BS., Oliver, JM., "Syk deficiency in nonreleaser basophils", 1999, J. Allergy Clin. Immunol., Aug;104, 279-284.
5. Black, KM., Lussier, AM., Gion, WR., "Kasaian MT.Cytokine priming of human basophils: description of allergen 'nonreleasers'", 1996, Int. Arch. Allergy Immunol., Oct;111, 142-151.

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