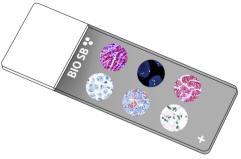




IgE Control Slides





Intended Use

For In Vitro Diagnostic Use.

Summary and Explanation

IgE, Immunoglobulin E, is an isotype of antibody only found in mammals. IgE is synthesized by plasma cells. Monomers of IgE consist of two heavy chains (ϵ chain) and two light chains, with the ϵ chain containing 4 Iq-like constant domains (Cε1-Cε4). IqE's main function is immunity to parasites such as helminths like Schistosoma mansoni, Trichinella spiralis, and Fasciola hepatica. IgE is utilized during immune defense against certain protozoan parasites such as Plasmodium falciparum. IgE also has an essential role in type I hypersensitivity, which manifests in various allergic diseases, such as allergic asthma, most types of sinusitis, allergic rhinitis, food allergies, and specific types of chronic urticaria and atopic dermatitis. IgE also plays a pivotal role in responses to allergens, such as: anaphylactic drugs, bee stings, and antigen preparations used in desensitization immunotherapy. IgE is known to be elevated in various autoimmune disorders such as Lupus, Rheumatoid Arthritis & psoriasis, and is theorized to be of pathogenetic importance in RA and SLE by eliciting a hypersensitivity reaction.

Presentation

Five slides of IgE positive tissues, each mounted on Hydrophilic Plus Slides, provided in a plastic mailer.

Catalog No.	Quantity
BSB-9235-CS	5 slides
BSB 3073	5 slides
BSB-3011-CS	5 slides

Storage Store at 20-25°C

Precautions

- 1. For professional users only. Results should be interpreted by a qualified medical professional.
- 2. Ensure proper handling procedures are used with this reagent.
- 3. Always wear personal protective equipment such as a laboratory coat, goggles, and gloves when handling reagents.
- 4. Dispose of unused solution with copious amounts of water.
- 5. Follow safety precautions of the heating device used for epitope retrieval (TintoRetriever Pressure Cooker or similar).
- 8. For additional safety information, refer to the Safety Data Sheet for this product.
- 9. For complete recommendations for handling biological specimens, please refer to the CDC document, "Guidelines for Safe Work Practices in Human and Animal Medical Diagnostic Laboratories" (see References in this document).

Stability

This product is stable up to the expiration date on the product label.Do not use after expiration date listed on the package label.

IHC Protocol

- 1. Subject tissues to heat induced epitope retrieval (HIER) using a suitable retrieval solution such as ImmunoDNA Retriever with Citrate (BSB 0020-BSB 0023) or EDTA (BSB 0030-BSB 0033).
- 2. Any of three heating methods may be used:

a. TintoRetriever Pressure Cooker or Equivalent

Place tissues/slides in a staining dish or coplin jar containing the ImmunoDNA Retriever with Citrate or EDTA and place on trivet in the pressure cooker. Add 1-2 inches of distilled water to the pressure cooker and turn heat to high. Incubate for 15 minutes. Open and immediately transfer slides to room temperature.

b. TintoRetriever PT Module or Water Bath Method

Place tissues/slides in a pre-warmed staining dish or coplin jar containing the ImmunoDNA Retriever with Citrate or EDTA at 95°-99° C. Incubate for 30-60 minutes.

c. Conventional Steamer Method

Place tissues/slides in a pre-warmed staining dish or coplin jar containing the ImmunoDNA Retriever with Citrate or EDTA in a steamer, cover and steam for 30-60 minutes.

- 3. After heat treatment, transfer slides in ImmunoDNA Retriever with Citrate or EDTA to room temperature and let stand for 15-20 minutes.
- 4. For manual staining, perform antibody incubation at ambient temperature. For automated staining methods, perform antibody incubation according to instrument manufacturer's instructions.
- 5. Wash slides with ImmunoDNA washer or DI water.
- 6. Continue IHC staining protocol. Wash slides between each step with ImmunoDNA washer solution.

Abbreviated Immunohistochemical Protocol

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Step	ImmunoDetector AP/HRP	PolyDetector AP/HRP	PolyDetector Plus HRP
Peroxidase/AP Blocker	5 min.	5 min.	5 min
Primary Antibody	30-60 min.	30-60 min.	30-60 min.
1st Step Detection	10 min.	30-45 min.	15 min.
2nd Step Detection	10 min.	Not Applicable	15 min.
Substrate- Chromogen	5-10 min.	5-10 min.	5-10 min.
Counterstain / Coverslip	Varies	Varies	Varies

Abbreviated IF Protocol

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Step	Incubation Time	
Rinse slides in IF wash buffer	5 minutes	
Drain and wipe excess IF wash buffer off slide		
Conduct remaining steps in the dark		
Apply Antibody	30-60 minutes	
Rinse with 3 changes of IF wash buffer	3x15 minutes each	
Coverslip with IF mounting medium		

Mounting Protocols

For detailed instructions using biodegradable permanent mounting media such as XyGreen PermaMounter (BSB 0169-0174) or organic solvent based resin such as PermaMounter (BSB 0094-0097), refer to PI0174 or PI0097.

Product Limitations

Due to inherent variability present in immunohistochemical procedures (including fixation time of tissues, dilution factor of antibody, retrieval method utilized, and incubation time), optimal performance should be established through the use of positive and negative controls. Results should be interpreted by a qualified medical professional.

References

- 1. Erb KJ (2007). "Helminths, allergic disorders and IgE-mediated immune responses: where do we stand?". Eur. J. Immunol. 2007; 37(5): 1170-3.
- 2. Fitzsimmons CM,et al. "Factors affecting human IgE and IgG responses to allergen-like Schistosoma mansoni antigens: Molecular structure and patterns of in vivo exposure". Int. Arch. Allergy Immunol. 2007; 142 (1):
- 3. Gould HJ, eta al. "The biology of IGE and the basis of allergic disease". Annu. Rev. Immunol. 2003; 21: 579-628.
- 4. Permin H, Wiik A. "The prevalence of IgE antinuclear antibodies in rheumatoid arthritis and systemic lupus erythematosus". Acta Pathol Microbiol Scand C. 1978; 86C (5): 245-9.
- 5. Elkayam O, "Serum IgE concentrations, disease activity, and atopic disorders in systemic lupus erythematosus". Allergy. 1995; 50 (1): 94-6. 6. U.S. Department of Health and Human Services: Centers for Disease Control and Prevention. Guidelines for Safe Work Practices in Human and Animal Medical Diagnostic Laboratories. Supplement / Vol. 61, January 6, 2012.

Symbol Key / Légende des symboles/Erläuterung der Symbole OAdvis EAR AB Storage Temperature Manufacturer Ideon Science Park EC **REP** Limites de température

> Zulässiger Temperaturbereich SE-223 70 Lund, Sweden Read Instructions for Use

Consulter les instructions $\begin{bmatrix} \mathbf{i} \end{bmatrix}$ d'utilisation Gebrauchsanweisung beachten Fabricant Hersteller

Expiration Date

Utiliser jusque

Verwendbar bis

REF

Catalog Number Référence du catalogue Bestellnummer

IVD

In Vitro Diagnostic Medical Device Dispositif médical de diagnostic in vitro In-Vitro-Diagnostikum

Scheelevägen 17

