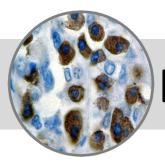
Growth Hormone

Clone: Polyclonal Rabbit Polyclonal







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Inset: IHC of Growth Hormone on a FFPE Pituitary Tissue

Intended Use

For In Vitro Diagnostic Use.

This antibody is intended for use in Immunohistochemical applications on formalinfixed paraffin-embedded tissues (FFPE), frozen tissue sections and cell preparations. Interpretation of results should be performed by a qualified medical professional.

Immunogen

Recombinant human growth hormone protein.

Summary and Explanation

Growth hormone (GH or somatotropin) is a 191 amino acid, single-chain polypeptide hormone which is synthesized, stored and secreted by the somatotroph cells within the lateral wings of the anterior pituitary gland, which stimulates growth and cell reproduction in humans and other animals.

GH is a useful marker in classification of pituitary tumors and the study of pituitary disease (acromegaly). It reacts with GH-producing cells.

| Antibody Type | Rabbit Polyclonal | Clone | Polyclonal |
|---------------|--------------------|------------|------------------|
| Isotype | lgG | Reactivity | Paraffin, Frozen |
| Localization | Cytoplasmic | Control | Normal Pituitary |
| | Species Reactivity | Human | |

Precautions

- 1. For professional users only. Results should be interpreted by a qualified medical professional.
- 2. This product contains <0.1% sodium azide (NaN₃) as a preservative. Ensure proper handling procedures are used with this reagent.
- 3. Always wear personal protective equipment such as laboratory coat, goggles and gloves when handling reagents.
- 4. Dispose of unused solution with copious amount of water.
- 5. Do not ingest reagent. If reagent is ingested, seek medical advice immediately.
- 6. Avoid contact with eyes. If contact occurs, flush with large quantities of water.
- 7. Follow safety precautions of the heating device used for epitope retrieval (TintoRetriever Pressure Cooker or similar).
- 8. For additional safety information refer to 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).

Presentation

GH a purified immunoglobulin fraction of rabbit antiserum that is filter sterilized and diluted in buffer pH 7.5, containing BSA and sodium azide as a preservative.

| Catalog No. | Antibody Type | Dilution | Volume/Qty | |
|-------------|------------------|----------------|------------|--|
| BSB 5568 | Tinto Prediluted | Ready-to-Use | 3.0 mL | |
| BSB 5569 | Tinto Prediluted | Ready-to-Use | 7.0 mL | |
| BSB 5570 | Tinto Prediluted | Ready-to-Use | 15.0 mL | |
| BSB 5571 | Concentrated | 1:250 - 1:1000 | 0.1 mL | |
| BSB 5572 | Concentrated | 1:250 - 1:1000 | 0.5 mL | |
| BSB 5573 | Concentrated | 1:250 - 1:1000 | 1.0 mL | |

Control Slides Available

| Catalog No. | Quantity | | |
|-------------|----------|--|--|
| BSB 5574 | 5 slides | | |

Storage Store at 2-8°C (Control Slides: Store at 20-25°C)

Stability

This product is stable up to the expiration date on the product label. Do not use after expiration date listed on package label. Temperature fluctuations should be avoided. Store appropriately when not in use, and avoid prolonged exposure to room temperature conditions.

Specimen Preparation

Paraffin sections: The antibody can be used on formalin-fixed paraffin-embedded (FFPE) tissue sections. Ensure tissue undergoes appropriate fixation for best results. Pre-treatment of tissues with heat-induced epitope retrieval (HIER) is recommended using Bio SB ImmunoDNA Retriever with Citrate (BSB 0020-BSB 0023), ImmunoDNA Retriever with EDTA (BSB 0030-BSB 0033) or ImmunoDNA Digestor (BSB 0108-0112). See reverse side for complete protocol. Tissue should remain hydrated via use of Bio SB Immuno/DNA Washer solutions (BSB 0029 & BSB 0042).

Frozen sections and cell preparations: The antibody can be used for labeling acetone-fixed frozen sections and acetone-fixed cell preparations.

Staining Procedure

- 1. Cut and mount 3-5 micron formalin-fixed paraffin-embedded tissues on positively charged slides such as Bio SB Hydrophilic Plus Slides (BSB 7028).
- 2. Air dry for 2 hours at 58° C.
- 3. Deparaffinize, dehydrate and rehydrate tissues.
- 4. 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).
- 5. 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.

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

Abbreviated Immunohistochemical Protocol

| Step | ImmunoDetector PolyDetect AP/HRP 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 | |

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 Pl0174 or Pl0097.

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. Cunha KS, et al. J Clin Pathol. 2003;Oct;56(10):758-763.
- 2. Chopin LK, et al. Growth Horm IGF Res. 2002; Apr; 12(2):126-136.
- 3. Matsuno A, et al. Pathol Res Pract. 2001;197(1)13-20
- 4. 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

| EMERGO EUROP Prinsessegracht 2 2514 AP The Hagu The Netherland | 210 | Storage Temperature Limites de température Zulässiger Temperaturbereich | | Manufacturer Fabricant Hersteller | REF | Catalog Number Référence du catalogue Bestellnummer |
|--|------------------------|--|-------------|--|-----|---|
| In Vitro Diagnostic Medical Devic Dispositif médical de diagnostic in vitr In-Vitro-Diagnostikur | $ \hat{\mathbf{i}} $ | Read Instructions for Use Consulter les instructions d'utilisation Gebrauchsanweisung beachten | \subseteq | Expiration Date Utiliser jusque Verwendbar bis | LOT | Lot Number Code du lot Chargenbezeichnung |

