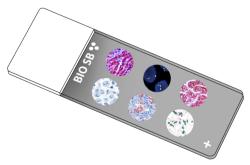




# Glucagon Control Slides





# **Intended Use**

For In Vitro Diagnostic Use.

### **Summary and Explanation**

Glucagon is a 29-amino acid polypeptide acting as an important hormone in carbohydrate metabolism. The hormone is synthesized and secreted from alpha cells of the islets of Langerhans, which are located in the endocrine portion of the pancreas. Abnormally-elevated levels of glucagon may be caused by pancreatic tumors such as glucagonoma, symptoms of which include necrolytic migratory erythema, elevated amino acids and hyperglycemia. It may occur alone or in the context of Multiple Endocrine Neoplasia Type 1.

Glucagon antibody detects glucagon-secreting cells and tumors such as glucagonomas. Studies show that approximately 80% of glucagonomas are malignant and these patients have a syndrome most often initially recognized by dermatologists. Symptoms include necrolytic migratory erythema as well as diabetes, anemia, stomatitis, weight loss, frequent venous thrombosis, and in some instances, diarrhea and psychiatric disturbances. The diagnosis may be readily confirmed by the demonstration of elevated plasma glucagon concentration.

# Presentation

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

Catalog No.	Quantity			
BSB-9196-CS	5 slides			
BSB 2334	5 slides			
BSB 3348	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 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 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

A DESCRIPTION OF THE PROPERTY								
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. Unger RH, et al. N Eng J Med. 1981;304:1518-1524
- 2. Larson L, Hum Pathol. 1978;9:401-416
- 3. Erlandsen SL, Williams and Wilkins, Baltimore. 1980;140-155
- 4. Friesen SR, N Eng J Med. 1982;306:580-590
- 5. Heitz PU, et al. Hum Pathol. 1982;13:263
- 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.

https://www.cdc.gov/mmwr/pdf/other/su6101.pdf

Symbol Key / Légende des symboles/Erläuterung der Symbole

EC RE	QAdvis EAR AB Ideon Science Park Scheelevägen 17 SE-223 70 Lund, Sweden	<b>\</b>	Storage Temperature Limites de température Zulässiger Temperaturbereich		Manufacturer Fabricant Hersteller	REF	Catalog Number Référence du catalogue Bestellnummer
IVD	In Vitro Diagnostic Medical Device Dispositif médical de diagnostic in vitro In-Vitro-Diagnostikum	[]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

