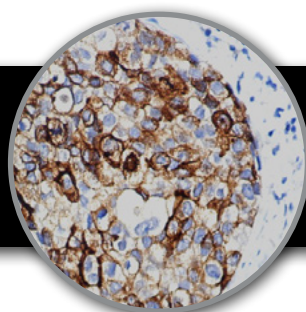


BCA-225
Clone: Cu-18
Mouse Monoclonal



Bio SB
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Inset: IHC of BCA-225 on a FFPE Breast Carcinoma Tissue

Intended Use

For In Vitro Diagnostic Use.

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

Immunogen

BCA 225 protein secreted by the T47D (clone 11) human breast carcinoma cell line.

Summary and Explanation

This antibody recognizes a human Breast Carcinoma-associated glycoprotein, BCA-225 (220-225 kDa). This protein differs in size and distribution from other Breast Carcinoma antigens. Unlike other carcinoma antibodies against Breast Carcinoma antigens, this antibody does not react with benign or malignant colonic tissues. Since this antigen is localized in malignancies of Breast Carcinomas and Carcinoma of the Uterine Cervix, it can be effectively used to identify metastatic Breast Carcinoma lesions.

Strong intracytoplasmic staining is seen in primary and metastatic Breast Carcinoma tissue, as well as in Cervical Carcinomas. Apical staining is seen in normal kidney, lung, Fallopian tube, liver, skin (eccrine sweat glands) and uterus. Similar staining patterns are observed in lung, ovarian, and endometrial cancers. Carcinomas of the colon, stomach, prostate, urinary bladder, liver, pancreas, thyroid, and parotid are negative, as are Sarcomas and Lymphoid Cancers.

| | | | |
|---------------------------|------------------|-------------------|--|
| Antibody Type | Mouse Monoclonal | Clone | Cu-18 |
| Isotype | IgG1/K | Reactivity | Paraffin, Frozen |
| Localization | Cytoplasmic | Control | Breast, Lung, Uterus, Cervical Carcinoma, Breast Carcinoma |
| Species Reactivity | Human | | |

Presentation

BCA-225 is a mouse monoclonal antibody derived from cell culture supernatant that is concentrated, dialyzed, filter sterilized and diluted in buffer pH 7.5, containing BSA and sodium azide as a preservative.

Presentations

| Catalog Num. | Antibody Type | Dilution | Volume/Qty |
|--------------|------------------|----------------|------------|
| BSB 5064 | Tinto Prediluted | Ready-to-Use | 3.0 mL |
| BSB 5065 | Tinto Prediluted | Ready-to-Use | 7.0 mL |
| BSB 5066 | Tinto Prediluted | Ready-to-Use | 15.0 mL |
| BSB 5067 | Concentrated | 1:25 - 1:100 | 0.1 mL |
| BSB 5068 | Concentrated | 1:25 - 1:100 | 0.5 mL |
| BSB 5069 | Concentrated | 1:25 - 1:100 | 1.0 mL |
| BSB 5070 | Control Slides | Not Applicable | 5 slides |

Precautions

1. For professional users only. Ensure results are interpreted by a medical professional.
2. This product contains sodium azide (NaN₃), a toxic chemical which may react with plumbing to form highly explosive build-ups of metal azides. Upon disposal, flush with large volumes of water to prevent sodium azide build-up.
3. Ensure proper handling procedures are used with reagent. Always wear proper laboratory equipment such as laboratory coat and gloves when handling reagents.
4. Unused solution should be disposed of according to local and federal regulations.
5. Do not ingest reagent. If reagent ingested, contact a poison control center immediately.
6. 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" (3).

Storage

Store at 2-8 °C. 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 to ensure 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 positive 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 epitope retrieval 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 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 IHC wash buffer or DI water.
9. Continue IHC staining protocol.

Recommended IHC Protocol

| 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 | Varies | Varies | Varies |





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 medical professional.

References

1. Ceriani RL, Monoclonal Ab's and Breast Cancer. Boston, Martinus, Nijhoff . 1985
2. Mesa-Tejada R, et al. Am J Pathol. 1988;130:305-314
3. 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

| | | | | |
|----------------------|--|--|--|--|
| EC REP | EMERGO EUROPE Prinsessegracht 20 2514 AP The Hague The Netherlands |  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 |  Read Instructions for Use Consulter les instructions d'utilisation Gebrauchsanweisung beachten |  Expiration Date Utiliser jusque Verwendbar bis | LOT Lot Number Code du lot Chargenbezeichnung |



69 Santa Felicia Dr., Santa Barbara, CA 93117, USA
Tel: (805) 692-2768 | Tel: (800) 561-1145 | Fax: (805) 692-2769
E-mail: info@biosb.com | Website: www.biosb.com