

**BCA-225**  
**Mouse Monoclonal antibody(Mab)**  
**Catalog # AD80314**

**Specification**

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**BCA-225 - Product info**

|                   |                        |
|-------------------|------------------------|
| Application       | IHC-P, IHC             |
| Primary Accession | <a href="#">P16422</a> |
| Reactivity        | Human                  |
| Host              | Mouse                  |
| Clonality         | Monoclonal             |
| Calculated MW     | 34932                  |

**BCA-225 - Additional info**

|           |       |
|-----------|-------|
| Gene ID   | 4072  |
| Gene Name | EPCAM |

**Other Names**

Epithelial cell adhesion molecule, Ep-CAM, Adenocarcinoma-associated antigen, Cell surface glycoprotein Trop-1, Epithelial cell surface antigen, Epithelial glycoprotein, EGP, Epithelial glycoprotein 314, EGP314, hEGP314, KS 1/4 antigen, KSA, Major gastrointestinal tumor-associated protein GA733-2, Tumor-associated calcium signal transducer 1, CD326, EPCAM, GA733-2, M1S2, M4S1, MIC18, TACSTD1, TROP1

**Dilution**

IHC-P~~Ready-to-use  
IHC~~Ready-to-use

**Storage**

Maintain refrigerated at 2-8°C

**Precautions**

**BCA-225 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.**

**BCA-225 - Protein Information**

**Name** EPCAM

**Synonyms**

**GA733-2, M1S2, M4S1, MIC18, TACSTD1, TRO**

**Function**

**May act as a physical homophilic interaction molecule between intestinal epithelial cells (IECs) and intraepithelial lymphocytes (IELs) at the mucosal epithelium for providing immunological barrier as a first line of defense against mucosal infection. Plays a role in embryonic stem cells proliferation and**

Cellular Location

**differentiation. Up-regulates the expression of FABP5, MYC and cyclins A and E.**

**Lateral cell membrane; Single-pass type I membrane protein. Cell junction, tight junction. Note=Colocalizes with CLDN7 at the lateral cell membrane and tight junction**

Tissue Location

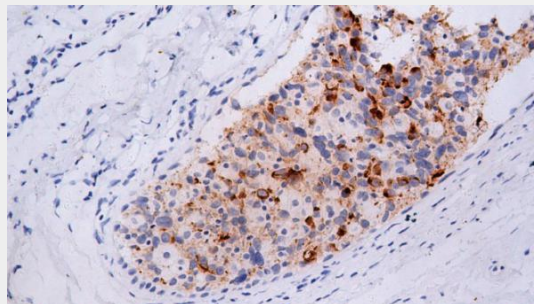
**Highly and selectively expressed by undifferentiated rather than differentiated embryonic stem cells (ESC). Levels rapidly diminish as soon as ESC's differentiate (at protein levels). Expressed in almost all epithelial cell membranes but not on mesodermal or neural cell membranes. Found on the surface of adenocarcinoma.**

### BCA-225 - Protocols

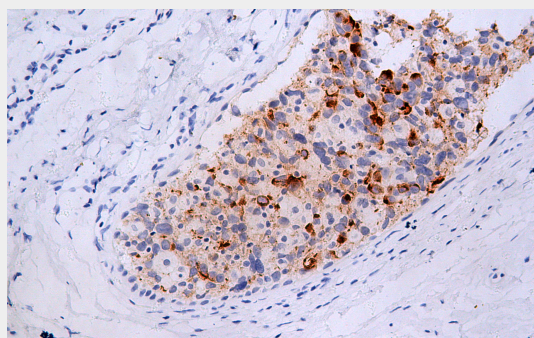
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### BCA-225 - Images



Breast cancer



Immunohistochemical analysis of paraffin-embedded breast cancer tissue using AD80314 performed on the Abcarta® FAIP-30 Fully automated IHC platform. Tissue was fixed with formaldehyde at room temperature, antigen retrieval was by heat mediation with a EDTA buffer (pH 9.0). Samples were incubated with primary antibody (Ready-to-use) for 15 min at room temperature. AmpSee™ Detection Systems [Abcepta:AR005] was used as the secondary antibody.