

**Epithelial Antigen (Ep-CAM) (C-term) Rabbit Monoclonal Antibody
Product Data Sheet**

Catalog #1144-1

Clone ID: E144 **Lot #:** C042213
Quantity: 100 µl
Type: Rabbit Monoclonal IgG
Species Cross-reactivity: + Human + Mouse + Rat
Applications: + WB + IHC + ICC + Flow Cytometry + IP
Molecular Wt.: 39 kDa
UniProt ID: P16422

Background: Epithelial cell adhesion molecule (Ep-CAM) is a monomeric membrane glycoprotein that is expressed on virtually all epithelial cell membranes and on a variety of epithelial carcinomas (1-3). Ep-CAM is overexpressed in a variety of human carcinomas and is, therefore, a potential therapeutic target for human solid tumors (4). Ep-CAM contains an extracellular domain with two epidermal growth factor-like repeats, followed by a cysteine-poor region, which are necessary for the adhesion properties of the molecule (5).

Specificity: A synthetic peptide corresponding to residues in C-terminus (cytoplasmic domain) of human Ep-CAM was used as immunogen.

Storage Conditions: Store at -20 °C. Buffer: 50 mM Tris-Glycine (pH 7.4), 0.15 M NaCl, 40% Glycerol, 0.01% sodium azide and 0.05% BSA. Stable for 12 months from date of receipt.

Recommended Dilutions:

WB: 1:500 - 1000
IHC: 1:100–250
ICC: 1:100

Background References:

1. Tomita, Y., et al. Molecular identification of a human carcinoma-associated glycoprotein antigen recognized by mouse monoclonal antibody FU-MK-1. *J. Cancer Res.* 91: 231–238 (2000).
2. Trebak, M., et al. Oligomeric state of the colon carcinoma-associated glycoprotein GA733-2 (Ep-CAM/EGP40) and its role in GA733-mediated homotypic cell-cell adhesion. *J. Biol. Chem.* 276: 2299–2309 (2001).
3. Simon, B., et al. Epithelial glycoprotein is a member of a family of epithelial cell surface antigens homologous to nidogen, a matrix adhesion protein. *Proc Natl Acad Sci U S A.* 87: 2755–9 (1990).
4. Szala, S., et al. Molecular cloning of cDNA for the carcinoma-associated antigen GA733-2. *Proc Natl Acad Sci U S A.* 87: 3542–6 (1990).
5. Balzar, M., et al. Epidermal growth factor-like repeats mediate lateral and reciprocal interactions of Ep-CAM molecules in homophilic adhesions. *Mol. Cell. Biol.* 21: 2570–2580 (2001).

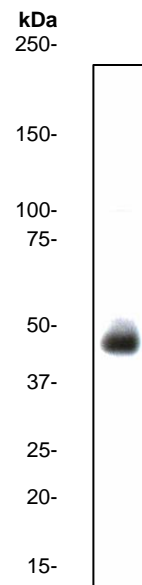


Fig 1. Western blot analysis on A431 cell lysate using anti-Epithelial Antigen (Ep-CAM) (C-term) RabMAb (cat. #1144-1); dilution 1:2,500.

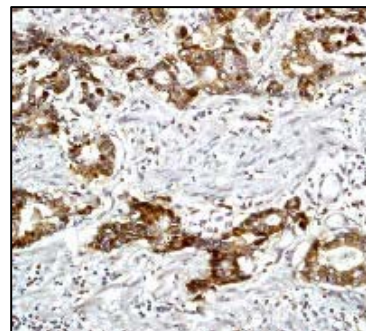


Fig 2. Immunohistochemical analysis of paraffin-embedded stomach carcinoma using anti-Epithelial Antigen (Ep-CAM) (C-term) RabMAb (cat. #1144-1).

Product QC'd by: _____

For research use only. Not for use in diagnostic or therapeutic applications.

This product was manufactured under U.S. Patent No. 5,675,063. For a complete list of protocols and available related products, please visit www.epitomics.com.

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