

Datasheet for ABIN4886570

anti-EpCAM antibody (Middle Region)



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Overview

Quantity:	100 µg
Target:	EpCAM (EPCAM)
Binding Specificity:	AA 147-189, Middle Region
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This EpCAM antibody is un-conjugated
Application:	Western Blotting (WB), Flow Cytometry (FACS), Immunofluorescence (IF), Immunohistochemistry (IHC), ELISA

Product Details

Purpose:	Anti-EpCAM Antibody Picoband®
Immunogen:	A synthetic peptide corresponding to a sequence in the middle region of human EPCAM, different from the related mouse sequence by fifteen amino acids, and from the related rat sequence by sixteen amino acids.
Sequence:	ELKHKAREKP YDSKSLRTAL QKEITTRYQL DPKFITSILY ENN
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins
Characteristics:	Anti-EpCAM Antibody Picoband® (ABIN4886570). Tested in ELISA, Flow Cytometry, IF, IHC, WB applications. This antibody reacts with Human. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal

Product Details

background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.

Purification: Immunogen affinity purified.

Target Details

Target: EpCAM (EPCAM)

Alternative Name: EPCAM ([EPCAM Products](#))

Background: Synonyms: 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,

Tissue Specificity: 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. .

Background: Epithelial cell adhesion molecule (EpCAM) is a transmembrane glycoprotein mediating Ca²⁺-independent homotypic cell-cell adhesion in epithelia. This gene encodes a carcinoma-associated antigen and is a member of a family that includes at least two type I membrane proteins. This antigen is expressed on most normal epithelial cells and gastrointestinal carcinomas and functions as a homotypic calcium-independent cell adhesion molecule. The antigen is being used as a target for immunotherapy treatment of human carcinomas. Mutations in this gene result in congenital tufting enteropathy.

Molecular Weight: 35-40 kDa

Gene ID: 4072

UniProt: [P16422](#)

Application Details

Application Notes: Western blot, 0.1-0.5 µg/mL
Immunohistochemistry (Paraffin-embedded Section), 2-5 µg/mL
Immunofluorescence, 5 µg/mL
Flow Cytometry (Fixed), 1-3 µg/1x10⁶ cells
ELISA, 0.1-0.5 µg/mL

Application Details

1. Litvinov, Sergey, et al. (1994). "Ep-CAM: a human epithelial antigen is a homophilic cell-cell adhesion molecule". The Journal of Cell Biology 125 (2): 437-46. 2. Maetzel, Dorothea, et al. (2009). "Nuclear signalling by tumour-associated antigen EpCAM". Nature Cell Biology 11 (2): 162-71.

Comment: Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P).

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.

Concentration: 500 µg/mL

Buffer: Each vial contains 4 mg Trehalose, 0.9 mg NaCl and 0.2 mg Na₂HPO₄.

Handling Advice: Avoid repeated freezing and thawing.

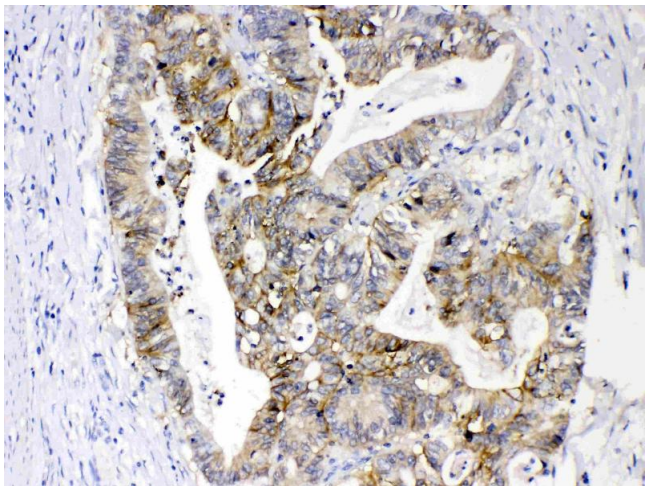
Storage: 4 °C, -20 °C

Storage Comment: Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.

Publications

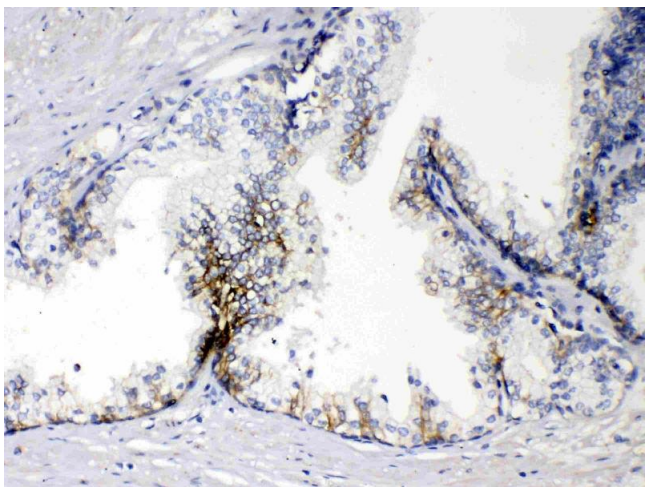
Product cited in: Huang, Li, Pan, Cheng, Ren, Jia, Ma, Xu: "A novel multi-target RNAi adenovirus inhibits hepatoma cell proliferation, migration, and induction of angiogenesis." in: **Oncotarget**, Vol. 7, Issue 36, pp. 57705-57713, (2018) ([PubMed](#)).

Zhang, Bu, Sun, Xu, Yao, He, Lai: "Paracrine effects of human amniotic epithelial cells protect against chemotherapy-induced ovarian damage." in: **Stem cell research & therapy**, Vol. 8, Issue 1, pp. 270, (2018) ([PubMed](#)).



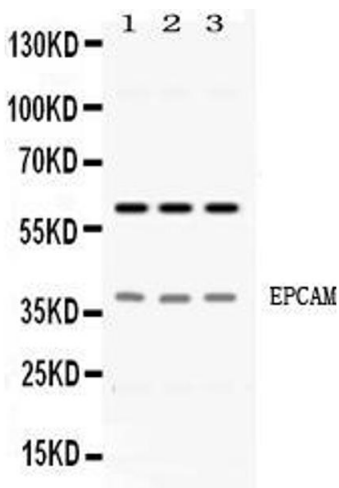
Immunohistochemistry

Image 1. EPCAM was detected in paraffin-embedded sections of human intestinal cancer tissues using rabbit anti- EPCAM Antigen Affinity purified polyclonal antibody (Catalog #) at 1 µg/mL. The immunohistochemical section was developed using SABC method (Catalog # SA1022).



Immunohistochemistry

Image 2. EPCAM was detected in paraffin-embedded sections of human prostatic cancer tissues using rabbit anti- EPCAM Antigen Affinity purified polyclonal antibody (Catalog #) at 1 µg/mL. The immunohistochemical section was developed using SABC method (Catalog # SA1022).



Western Blotting

Image 3. Western blot analysis of EPCAM expression in HELA whole cell lysates (Lane 1), A549 whole cell lysates (Lane 2) and PANC-1 whole cell lysates (Lane 3). EPCAM at 40KD was detected using rabbit anti- EPCAM Antigen Affinity purified polyclonal antibody (Catalog #) at 0.5 µg/mL. The blot was developed using chemiluminescence (ECL) method (Catalog # EK1002).