

Datasheet for ABIN7072595

## Recombinant anti-EpCAM antibody



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### 2 Images

#### Overview

Quantity:	200 µg
Target:	EpCAM (EPCAM)
Reactivity:	Human
Host:	Mouse
Antibody Type:	Recombinant Antibody
Clonality:	Monoclonal
Conjugate:	This EpCAM antibody is un-conjugated
Application:	Western Blotting (WB), Flow Cytometry (FACS), Immunofluorescence (IF), Immunohistochemistry (IHC), Immunoprecipitation (IP), Radioimmunoassay (RIA)

#### Product Details

Purpose:	Anti-EpCAM [HEA125], Mouse IgG1, kappa
Immunogen:	This antibody was raised by immunising BALB/c mice with the human colon carcinoma cell line HT-29.
Clone:	HEA125
Isotype:	IgG1 kappa
Specificity:	This antibody is specific for the extracytoplasmic part of human EpCAM, a stable and widely-distributed marker expressed on the surface of many adenocarcinomas. It reacts with carcinomas derived from the colorectum, stomach, pancreas, liver, lung, mammary gland, ovary, thyroid, kidney, urinary bladder and prostate.
Characteristics:	Original Species of Ab: Mouse

## Product Details

Original Format of Ab: IgG1

Purification: Protein A affinity purified

## Target Details

Target: EpCAM (EPCAM)

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

Background: CD326, Ep-CAM, Epithelial cell adhesion molecule, 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, HEA 125

UniProt: [P16422](#)

## Application Details

Application Notes: This antibody has applications in the detection of normal and neoplastic epithelial cells, and distinguishing carcinomas from non-epithelial neoplasms (Momburg et al, 1987). This antibody has been used in radioimmunoassays on live cells and immunoenzymatic staining assays on glutaraldehyde-fixed cells, as well as in immunoperoxidase staining of frozen and formalin-fixed paraffin tissue sections (Moldenhauer et al, 1987, Momburg et al, 1987). These revealed it to react with most normal human epithelial cells, but not non-epithelial tissue, and to intensely react with human carcinomas and metastatic lesions, but not lymphoma, melanoma, sarcoma or neuroblastoma cell lines (Moldenhauer et al, 1987, Momburg et al, 1987). Squamous cell carcinomas stain less strongly than adenocarcinomas, and keratinizing areas of tumor masses remain negative (Momburg et al, 1987). This antibody has also been used in immunoprecipitation analysis to characterise human EpCAM (Moldenhauer et al, 1987), and in immunohistochemical analysis of EpCAM expression in formalin-fixed, paraffin-embedded liver tissue sections (Igarashi et al, 2013, Wang et al, 2018) and frozen liver tissue sections (Crosby et al, 1998). Additionally, it has been used in the immunocytochemical detection of EpCAM expression in mononuclear cell preparations obtained from human peripheral blood or lamina propria (Qiao et al, 1996).

Restrictions: For Research Use only

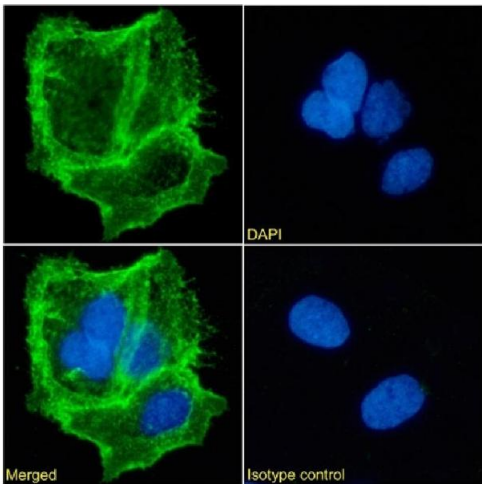
## Handling

Concentration: 1 mg/mL

Handling

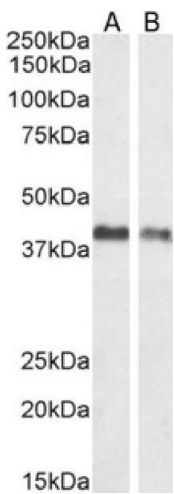
Buffer:	PBS with 0.02 % Proclin 300.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C.

Images



Immunofluorescence

**Image 1.** Immunofluorescence staining of Caco-2 cells using anti-EpCAM. HEA125 Immunofluorescence analysis of paraformaldehyde fixed Caco-2 cells stained with the chimeric mouse IgG version of HEA125 (ABIN7072595) at 10 µg/mL followed by Alexa Fluor® 488 secondary antibody (2 µg/mL), showing membrane staining. The nuclear stain is DAPI (blue). Panels show from left-right, top-bottom ABIN7072536, DAPI, merged channels and an isotype control. The isotype control was stained with anti-unknown antibody (ABIN5668079) followed by Alexa Fluor® 488 secondary antibody.



Western Blotting

**Image 2.** Western Blot using anti-EpCAM antibody HEA125. human breast carcinoma(A) and human colorectal carcinoma(B) tissue lysate (35 µg protein in RIPA buffer) was resolved on an SDS PAGE gel and blots probed with the chimeric mouse IgG version of HEA125 (ABIN7072595) at 1 µg/mL before detection using an anti-mouse secondary antibody. A primary incubation of 1h was used and protein was detected by chemiluminescence.