

EpCAM Recombinant Antibody [PS01-69] - Mouse IgG1 (Chimeric)

HA601661



Product Type:	Recombinant Chimeric Antibody, primary antibodies
Species reactivity:	Human
Applications:	IF-Cell, IHC-P
Molecular Wt:	Predicted band size: 35 kDa
Clone number:	PS01-69

Description: EPCAM is a carcinoma-associated antigen and belongs to a family which includes at least 2 type I membrane proteins. The EPCAM protein has a role in embryonic stem cells proliferation and differentiation. EPCAM is used as a target for immunotherapy treatment of human carcinomas. EPCAM is expressed on most normal epithelial cells and gastrointestinal carcinomas and acts as a homotypic calcium-independent cell adhesion molecule. Epithelial cell adhesion molecules (EPCAM) can act as a physical homophilic interaction molecule between intestinal epithelial cells (IECs) and intraepithelial lymphocytes (IELs) at the mucosal epithelium for supplying immunological barrier as a first line of defense against mucosal infection. EPCAM gene mutations result in congenital tufting enteropathy.

Immunogen: Recombinant protein within human EpCAM aa1-295.

Positive control: HT-29, Human Endometrium, Human Colon.

Subcellular location: Lateral cell membrane, Cell junction.

Database links: SwissProt: P16422 Human

Recommended Dilutions:

IF-Cell	1:500
IHC-P	1:50

Storage Buffer: 1*PBS (pH7.4), 0.1% BSA, 40% Glycerol, 0.2% Proclean 950.

Storage Instruction: Shipped at 4℃. Store at +4℃ short term (1-2 weeks). Store at -20℃ long term.

Purity: Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

Service mail:support@huabio.cn

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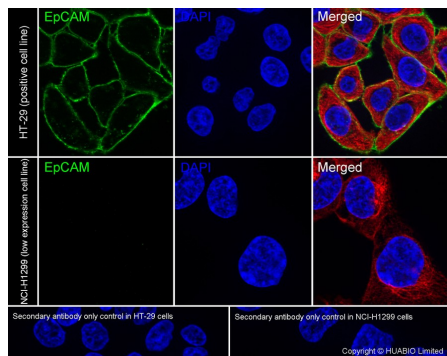
Applications:WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation

Images

Fig1: Application: Immunocytochemistry (IF-cell)

Species: Human

Sample: HT-29 (Human colorectal adenocarcinoma cell) / NCI-H1299 (Human non-small cell Lung carcinoma cell)



Fixation: 4% Paraformaldehyde, 15 minutes at room temperature.
 Permeabilization: 0.1% Triton X-100, 15 minutes at room temperature.

Blocking: 1% BSA + 10% normal goat serum, 1 hour at room temperature.

Antibody dilution buffer: 1% BSA in PBST.

Primary antibody: HA601661, 1/500, overnight at 4°C.

Secondary antibody: Goat Anti-Mouse IgG (iFluor™ 488, HA1125), 45 minutes at room temperature.

Counterstain: Beta tubulin (ET1602-4, Red), 1/500, overnight at 4°C. The nuclear counterstain was DAPI (Blue).

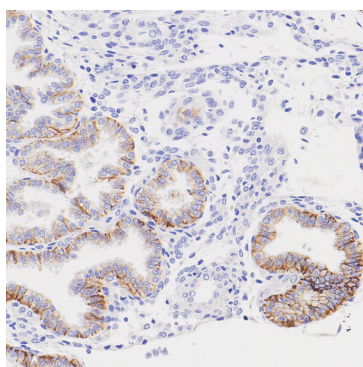
NCI-H1299 is a low EpCAM-expressing cell line (PMID: 39105395).

Fig2: Application: Immunohistochemistry (IHC-P)

Species: Human

Tissue: Endometrium

Sample: Paraffin-embedded section



Antigen retrieval: Heat-mediated, Tris-EDTA buffer (pH 9.0), 20 minutes at 95°C.

Wash buffer: 1× TBST

Endogenous peroxidase blocking: 3% H₂O₂, 10 minutes at room temperature.

Blocking: 1% BSA + 10% normal goat serum, 10 minutes at room temperature.

Primary antibody: HA601661, 1/50, 1 hour at room temperature.

Secondary antibody: HA1120, 20 minutes at room temperature.

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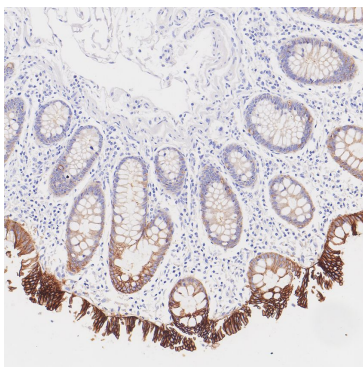


Fig3: Application: Immunohistochemistry (IHC-P)

Species: Human

Tissue: Colon

Sample: Paraffin-embedded section

Antigen retrieval: Heat-mediated, Tris-EDTA buffer (pH 9.0), 20 minutes at 95°C.

Wash buffer: 1× TBST

Endogenous peroxidase blocking: 3% H₂O₂, 10 minutes at room temperature.

Blocking: 1% BSA + 10% normal goat serum, 10 minutes at room temperature.

Primary antibody: HA601661, 1/50, 1 hour at room temperature.

Secondary antibody: HA1120, 20 minutes at room temperature.

Note: All products are “FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE”.

Background References

1. Li D et al. EpCAM-targeting CAR-T cell immunotherapy is safe and efficacious for epithelial tumors. Sci Adv. 2023 Dec
2. Li F et al. EpCAM-Targeting Aptamer Radiotracer for Tumor-Specific PET Imaging. Bioconjug Chem. 2021 Jun

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