

Anti-Carcino Embryonic Antigen CEA Antibody [PSH18-46] HA723999



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human
Applications:	WB, IHC-P
Molecular Wt:	Predicted band size: 77 kDa
Clone number:	PSH18-46

Description: Carcinoembryonic antigen-related cell adhesion molecule 5 (CEACAM5) also known as CD66e (Cluster of Differentiation 66e), is a member of the carcinoembryonic antigen (CEA) gene family. In the literature, CEACAM5 is often used as a synonym for cancer embryonic antigen (CEA), a well-known biomarker of many types of malignancies, colorectal cancer in the first place. Its primary function in the embryonic intestine and colon tumors is adhesion between epithelial cells. Also, it plays a significant role in the inhibition of differentiation and apoptosis in colon cells. There are evidences that high CEACAM5 expression is firmly associated with the CD133-positive colorectal cancer stem cells.

Positive control: TT cell lysate, BxPC-3 cell lysate, human colon tissue.

Subcellular location: Cell membrane, Apical cell membrane, Cell surface.

Database links: SwissProt: P06731 Human

Recommended Dilutions:

WB	1:5,000
IHC-P	1:1,000

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

Storage Instruction: Shipped at 4°C. Store at +4°C short term (1-2 weeks). It is recommended to aliquot into single-use upon delivery. Store at -20°C long term.

Purity: Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

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Images

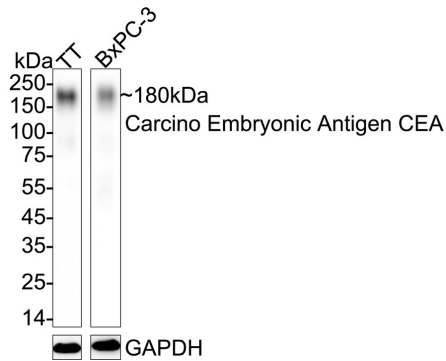


Fig1: Western blot analysis of Carcino Embryonic Antigen CEA on different lysates with Rabbit anti-Carcino Embryonic Antigen CEA antibody (HA723999) at 1/5,000 dilution.

Lane 1: TT cell lysate

Lane 2: BxPC-3 cell lysate

Lysates/proteins at 20 µg/Lane.

Predicted band size: 77 kDa

Observed band size: 180 kDa

Exposure time: 25 seconds; ECL: K1801;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA723999) at 1/5,000 dilution was used in primary antibody dilution (K1803) at 4 °C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

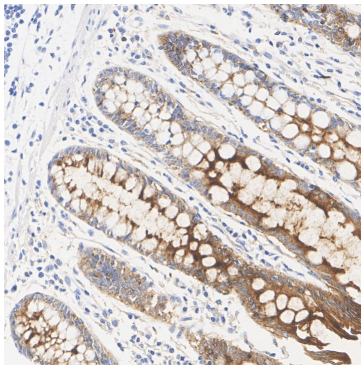


Fig2: Immunohistochemical analysis of paraffin-embedded human colon tissue with Rabbit anti-Carcino Embryonic Antigen CEA antibody (HA723999) at 1/1,000 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH₂O and PBS, and then probed with the primary antibody (HA723999) at 1/1,000 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

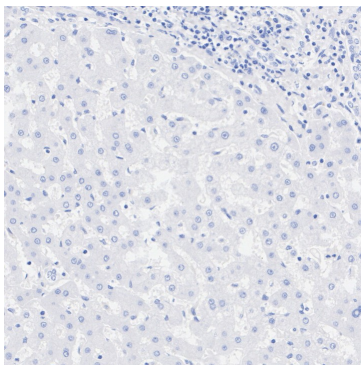


Fig3: Immunohistochemical analysis of paraffin-embedded human liver tissue (negative) with Rabbit anti-Carcino Embryonic Antigen CEA antibody (HA723999) at 1/200 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH₂O and PBS, and then probed with the primary antibody (HA723999) at 1/200 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

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

Background References

1. Decary S et al. Preclinical Activity of SAR408701: A Novel Anti-CEACAM5-maytansinoid Antibody-drug Conjugate for the Treatment of CEACAM5-positive Epithelial Tumors. Clin Cancer Res. 2020 Dec
2. Wang X et al. CEACAM5 inhibits the lymphatic metastasis of head and neck squamous cell carcinoma by regulating epithelial-mesenchymal transition via inhibiting MDM2. Clin Sci (Lond). 2022 Nov

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