



Mouse Anti-CEA antibody (BH0027)

BH0027

BH0027

Product Name:	CEA
Chinese Name:	小鼠抗癌胚抗原单克隆抗体
Alias:	Carcinoembryonic antigen; Carcinoembryonic antigen related cell adhesion molecule 5; Carcinoembryonic antigen-related cell adhesion molecule 5; CD66e; CD66e; CD66e antigen; CEA; CEA; CEACAM5; CEAM5_HUMAN; DKFZp781M2392; Meconium antigen 100; OTTHUMP00000199032; OTTHUMP00000199033; OTTHUMP00000199034.
Organism Species:	Mouse
Clonality:	Monoclonal
克隆号:	2H7
React Species:	Human,
Applications:	IHC-P=1:100-500IHC-F=1:100-500ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	71kDa
Cellular localization:	The cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human CEA:
Lsotype:	IgG2b
Purification:	affinity purified by Protein G
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed

CEA-related cell adhesion molecules (CEACAM) belong to the carcinoembryonic antigen (CEA) family. It consists of seven CEACAM (CEACAM 1, CEACAM 3-CEACAM 8) and 11 pregnancy-specific glyco-protein (PSG 1-PSG 11) members. The CEA family proteins belong to the immunoglobulin (Ig) superfamily and are composed of one Ig variable-like (IgV) and a varying number (0-6) of Ig constant-like (IgC) domains. CEACAM molecules are membrane-bound either via a transmembrane domain or a glycosyl phosphatidyl inositol (GPI) anchor. CEACAM molecules are differentially expressed in epithelial cells or in leucocytes. Over-expression of CEA/ CEACAM 5 in tumors of epithelial origin is the basis of its wide-spread use as a tumor marker. The function of CEACAM family members varies widely: they function as cell adhesion molecules, tumor suppressors, regulators of lymphocyte and dendritic cell activation, receptors of Neisseria species and other bacteria.

Function:

Cell surface glycoprotein that plays a role in cell adhesion and in intracellular signaling. Receptor for E.coli Dr adhesins.

Subunit:

Homodimer. Binding of E.coli Dr adhesins leads to dissociation of the homodimer.

Subcellular Location:

Cell membrane; Lipid-anchor, GPI-anchor

Tissue Specificity:

Found in adenocarcinomas of endodermally derived digestive system epithelium and fetal colon.

Post-translational modifications:

Complex immunoreactive glycoprotein with a MW of 180 kDa comprising 60% carbohydrate.

Similarity:

Belongs to the immunoglobulin superfamily. CEA family. Contains 7 Ig-like (immunoglobulin-like) domains.

SWISS:

P40199

Gene ID:

4680

Database links:

[Entrez Gene: 4680](#)Human

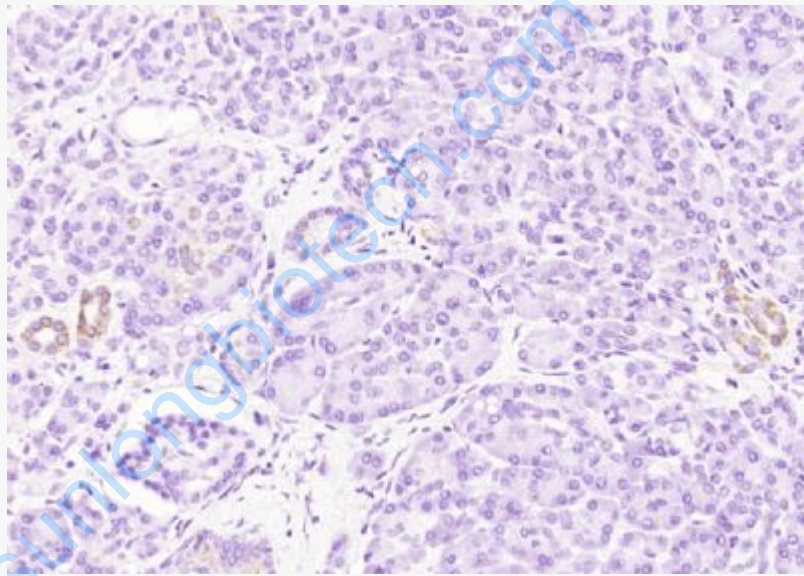
[Entrez Gene: 100125369](#)Rat

Product Detail:

[Omid: 163980](#)Human
[SwissProt: P40199](#)Human
[Unigene: 466814](#)Human
[Unigene: 122781](#)Rat

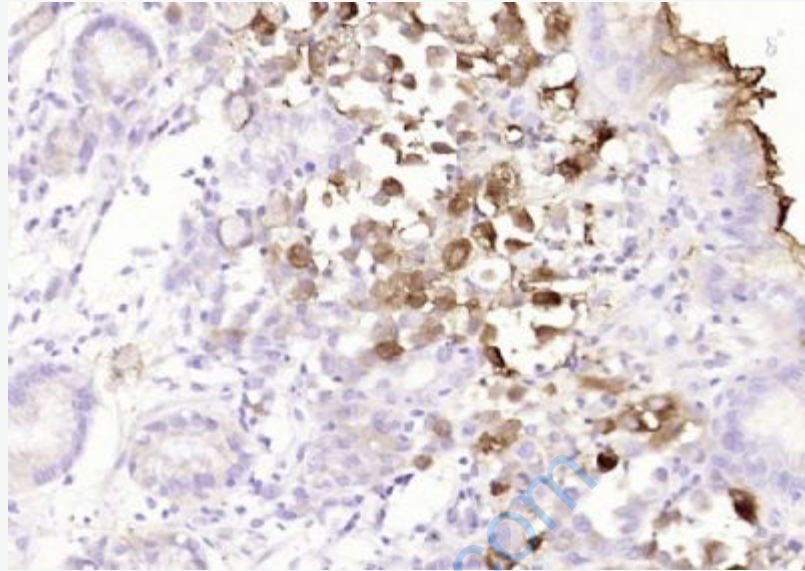
Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

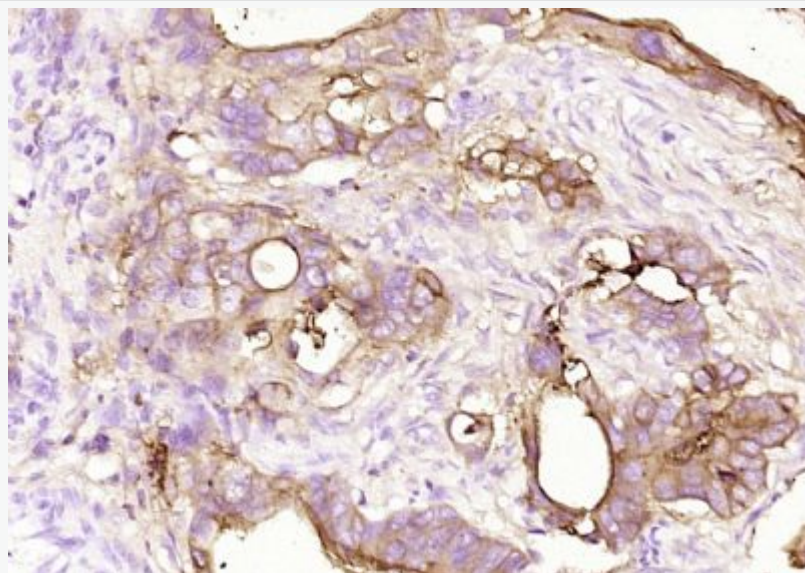


Picture:

Paraformaldehyde-fixed, paraffin embedded (human pancreatic cancer); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (CEA) Monoclonal Antibody, Unconjugated (BH0027) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Mouse)(sp-0024) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (human gastric carcinoma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (CEA) Monoclonal Antibody, Unconjugated (BH0027) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Mouse)(sp-0024) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (human colon carcinoma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (CEA) Monoclonal Antibody, Unconjugated (BH0027) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Mouse)(sp-0024) instructions and DAB staining.

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