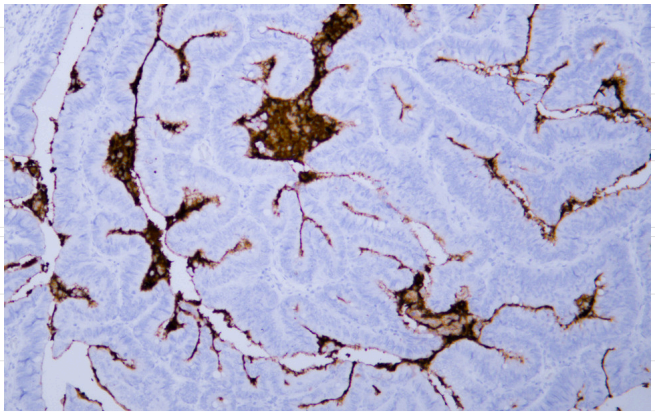
carcinoembryonic antigen(CEA) (ABT-CEA) mouse mAb

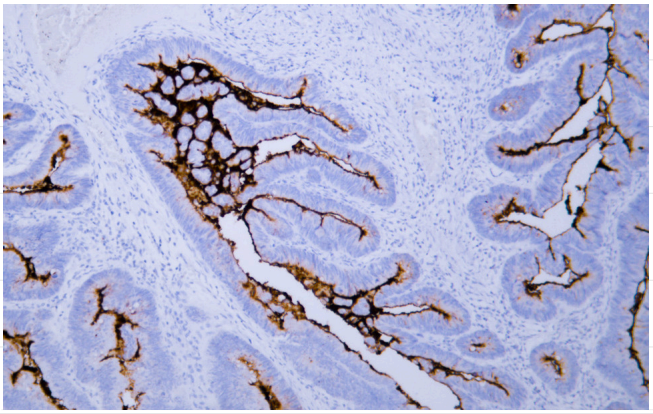
Catalog No	YP-Ab-15132
Isotype	IgG
Reactivity	Human
Applications	IHC;WB;IF
Gene Name	CEACAM5 CEA
Immunogen	Synthesized peptide derived from human carcinoembryonic antigen(CEA)
Specificity	This antibody detects endogenous levels of human carcinoembryonic antigen(CEA). Heat-induced epitope retrieval (HIER) TRIS-EDTA of pH8.0 was highly recommended as antigen repair method in paraffin sec
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Mouse, Monoclonal/IgG2b, Kappa
Purification	The antibody was affinity-purified from mouse ascites by affinity-chromatography using specific immunogen.
Dilution	IHC-p 1:100-500, WB 1:200-1000. IF 1:50-200
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	CEA;Carcinoembryonic antigen;Carcinoembryonic antigen-related cell adhesion molecule 5;CD66e;CEACAM5;CEACAM5 CEA;Carcinoembryonic antigen-related cell adhesion molecule 5 (Carcinoembryonic antigen) (CEA) (Meconium antigen 100) (CD antigen CD66e)
Observed Band	
Calculated Molecular Weight	
Cell Pathway	Cell membrane ; Lipid-anchor, GPI-anchor . Apical cell membrane . Cell surface . Localized to the apical glycocalyx surface. .
Tissue Specificity	Expressed in columnar epithelial and goblet cells of the colon (at protein level) (PubMed:10436421). Found in adenocarcinomas of endodermally derived digestive system epithelium and fetal colon.
Function	function:Cell surface glycoprotein that plays a role in cell adhesion and in intracellular signaling. Receptor for E.coli Dr adhesins.,PTM:Complex immunoreactive glycoprotein with a MW of 180 kDa comprising 60% carbohydrate.,similarity:Belongs to the immunoglobulin superfamily. CEA family.,

	similarity:Contains 7 Ig-like (immunoglobulin-like) domains.,subunit:Homodimer. Binding of E.coli Dr adhesins leads to dissociation of the homodimer.,tissue specificity:Found in adenocarcinomas of endodermally derived digestive system epithelium and fetal colon.,
Background	This gene encodes a cell surface glycoprotein that represents the founding member of the carcinoembryonic antigen (CEA) family of proteins. The encoded protein is used as a clinical biomarker for gastrointestinal cancers and may promote tumor development through its role as a cell adhesion molecule. Additionally, the encoded protein may regulate differentiation, apoptosis, and cell polarity. This gene is present in a CEA family gene cluster on chromosome 19. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2015],
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Human colon carcinoma tissue was stained with anti-CEA(ABT-CEA) antibody.



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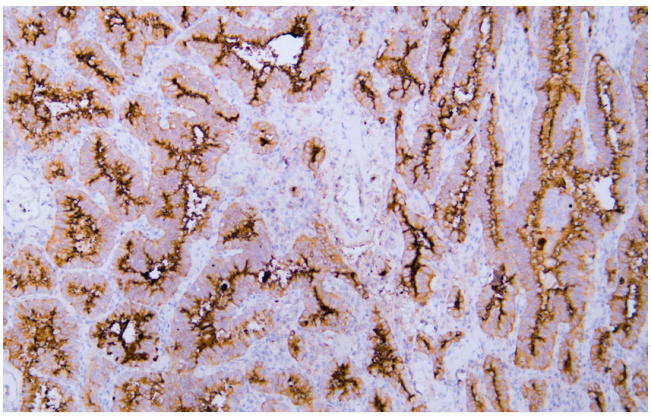
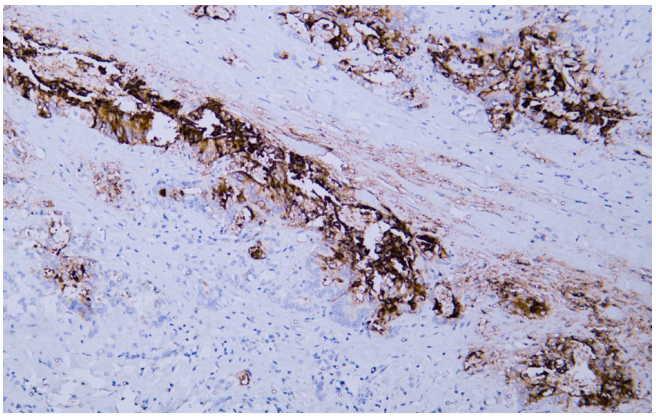
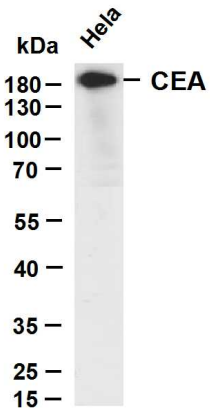


Human lung adenocarcinoma tissue was stained with anti-CEA(ABT-CEA) antibody.



Human pancreatic adenocarcinoma tissue was stained with anti-CEA(ABT-CEA) antibody.



Hela whole cell lysates were separated by 10% SDS-PAGE, and the membrane was blotted with anti-CEA(ABT-CEA) antibody. The HRP-conjugated Goat anti-Mouse IgG(H + L) antibody was used to detect the antibody. Lane 1: Hela Predicted band size: 76kDa Observed band size: 200kDa