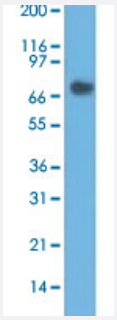
Carcinoembryonic antigen monoclonal antibody, clone COL-1

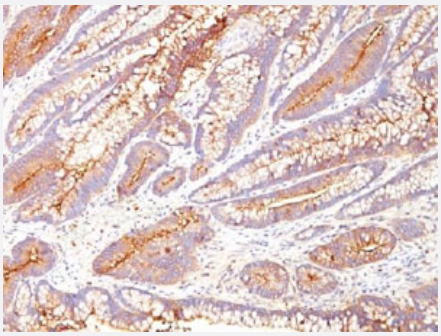
Catalog # MAB15171 Size 100 ug

Applications



Western Blot (Tissue lysate)

Western Blot (Tissue lysate) analysis of human stomach.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human colon carcinoma.

Specification

Product Description	Mouse monoclonal antibody raised against human carcinoembryonic antigen.
Immunogen	Human colon carcinoma extract.
Host	Mouse
Reactivity	Human
Form	Liquid
Purification	Protein A/G purification
Isotype	IgG2a, kappa

Recommend Usage	Flow Cytometry (0.5-1 ug/million cells) Immunofluorescence (1-2 ug/mL) Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (0.5-1 ug/mL) Western Blot (0.5-1 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In 10 mM PBS (0.05% BSA, 0.05% azide).
Storage Instruction	Store at 4°C.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Western Blot (Tissue lysate)

  Western Blot (Tissue lysate) analysis of human stomach.

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

  Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human colon carcinoma.

- Immunofluorescence

- Flow Cytometry

Gene Info — CEACAM1

Entrez GeneID	634
Protein Accession#	P06731
Gene Name	CEACAM1
Gene Alias	BGP, BGP1, BGPI
Gene Description	carcinoembryonic antigen-related cell adhesion molecule 1 (biliary glycoprotein)
Omim ID	109770
Gene Ontology	Hyperlink

Gene Summary	This gene encodes a member of the carcinoembryonic antigen (CEA) gene family, which belongs to the immunoglobulin superfamily. Two subgroups of the CEA family, the CEA cell adhesion molecules and the pregnancy-specific glycoproteins, are located within a 1.2 Mb cluster on the long arm of chromosome 19. Eleven pseudogenes of the CEA cell adhesion molecule subgroup are also found in the cluster. The encoded protein was originally described in bile ducts of liver as biliary glycoprotein. Subsequently, it was found to be a cell-cell adhesion molecule detected on leukocytes, epithelia, and endothelia. The encoded protein mediates cell adhesion via homophilic as well as heterophilic binding to other proteins of the subgroup. Multiple cellular activities have been attributed to the encoded protein, including roles in the differentiation and arrangement of tissue three-dimensional structure, angiogenesis, apoptosis, tumor suppression, metastasis, and the modulation of innate and adaptive immune responses. Multiple transcript variants encoding different isoforms have been reported, but the full-length nature of only two has been determined. [provided by RefSeq
Other Designations	CD66a antigen|antigen CD66|biliary glycoprotein adhesion molecule|carcinoembryonic antigen-related cell adhesion molecule 1

Gene Info — CEACAM5

Entrez GeneID	1048
Protein Accession#	P06731
Gene Name	CEACAM5
Gene Alias	CD66e, CEA, DKFZp781M2392
Gene Description	carcinoembryonic antigen-related cell adhesion molecule 5
Omim ID	114890
Gene Ontology	Hyperlink
Other Designations	-

Publication Reference

- Monoclonal antibody COL-1 reacts with restricted epitopes on carcinoembryonic antigen: an immunohistochemical study.

  Shi ZR, Tacha D, Itzkowitz SH.

  The Journal of Histochemistry and Cytochemistry 1994 Sep; 42(9):1215.

  Application: IHC-P, Human, Colon, Gastric cancer

- Definition of the expression of the human carcinoembryonic antigen and non-specific cross-reacting antigen in human breast and lung carcinomas.

  Robbins PF, Eggensperger D, Qi CF, Schlom J.

  International Journal of Cancer 1993 Apr; 53(6):892.

  Application: IHC, Human, Mammary carcinoma, Lung cancer

- Therapeutic efficacy of a high-affinity anticarcinoembryonic antigen monoclonal antibody (COL-1).

  Siler K, Eggensperger D, Hand PH, Milenic DE, Miller LS, Houchens DP, Hinkle G, Schlom J.

  Biotechnology Therapeutics 1993 Feb; 4(3-4):163.

- Definition by monoclonal antibodies of a repertoire of epitopes on carcinoembryonic antigen differentially expressed in human colon carcinomas versus normal adult tissues.

  Muraro R, Wunderlich D, Thor A, Lundy J, Noguchi P, Cunningham R, Schlom J.

  Cancer Research 1985 Nov; 45(11 Pt 2):5769.

  Application: Flow Cyt, RIA, Human, Colon carcinoma, Leukocyte

Disease

- Body Weight
- Diabetes Mellitus
- Genetic Predisposition to Disease
- Meningococcal Infections
- Metabolic Syndrome X
- Osteoporosis