

CEA antibody (F7F5)

Overview

Catalog Number: AT-CEA-F7F5-100

Description: Mouse monoclonal antibody against CEACAM5

Host/Species reactivity: Mouse/Human

Specificity: Monoclonal antibody recognizes native CEACAM5 antigen

Properties

Form: Liquid (1.0 mg/ml × 100μl)

Storage Instruction: Store at +4°C short term (1-2 weeks). Store at -20°C. Avoid freeze / thaw cycle

Storage Buffer: 50 % glycerol, 0.1% sodium azide in PBS buffer (pH = 7.4)

Purification: Affinity purification > 98 %

Clonality: Monoclonal

Clone name: F7F5

Isotype: IgG1

Applications

Western blotting: 1/10000 (HT29)

ELISA: 1/200000

Target

Sequence similarities: Belongs to the immunoglobulin superfamily.

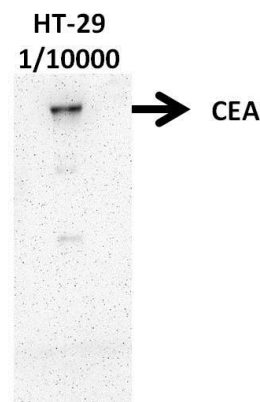
Cellular localization: Cell membrane

General Information

Carcinoembryonic antigen (CEA) is usually present only at very low levels in the blood of healthy adults. However, the serum levels are raised in some types of cancer, which means that it can be used as a tumor marker in clinical tests. CEA are glycosyl phosphatidyl inositol (GPI) cell surface anchored glycoproteins whose specialized sialofucosylated glycoforms serve as functional colon carcinoma ligands, which may be critical to the metastatic dissemination of colon carcinoma cells.

Reference

1. K.W. Huang, S.Y. Yang, H.E. Horng, J.J. Chieh, H.H. Chen, C.C. Wu, J.H. Chen, I.T. Lin, C.C. Yang, and H.C. Yang, "Time-evolution contrast of target MRI using high-stability antibody functionalized magnetic nanoparticles: An animal model", *J. Nanomater.* (accepted).
2. C.C. Yang, S.Y. Yang, C.S. Ho, J.F. Chang, B.H. Liu, and K.W. Huang, "Development of antibody functionalized magnetic nanoparticles for immunoassay of carcinoembryonic antigen: Feasibility study for clinic use", *J. Nanobiotech* (accepted)



CEA antibody (AT-CEA-F7F5-100). Western blot analysis of CEACAM5 expression in HT-29 whole cell lysate.



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