

bsm-4792M**[Primary Antibody]****CEA Mouse mAb****BioSS**
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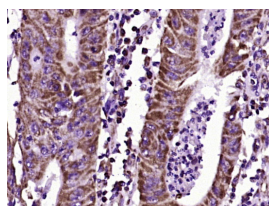
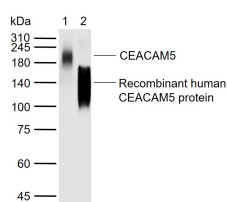
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— DATASHEET —

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|---|----------------------|--|
| Host: Mouse | Isotype: IgG | Applications: WB (1:500-2000) IHC-P (1:100-500) IHC-F (1:400-800) IF (1:100-500) |
| Clonality: Monoclonal | CloneNo.: 4F3 | |
| GeneID: 1048 | SWISS: P06731 | |
| Target: CEA | | |
| Immunogen: KLH conjugated synthetic peptide derived from human CEA/CD66e/CEACAM5: 41-140/702. | | |
| Purification: affinity purified by Protein A | | Reactivity: Human |
| Concentration: 1mg/ml | | Predicted MW.: 150-200 kDa Subcellular Location: Cell membrane |
| Storage: Size : 50ul/100ul/200ul 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Size : 200ug (PBS only) 0.01M PBS Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles. | | |
| Background: 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. | | |

— VALIDATION IMAGES —

Sample: Lane 1: Human LOVO cell lysates Lane 2: Recombinant human CEACAM5 protein, C-His
Primary: Anti-CEACAM5 (bsm-4792M) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution Predicted band size: 77 kDa Observed band size: 200,140 kDa

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 (bsm-4792M) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Mouse)(sp-0024) instructions and DAB staining.

— SELECTED CITATIONS —

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

- **[IF=5.83]** Ren, Kewei, et al. "Target-Driven Triple-Binder Assembly of MNAzyme for Amplified Electrochemical Immunosensing of Protein Biomarker." *Analytical Chemistry* (2015). Other ;="". 25557949
- **[IF=5.123]** Cao Y et al. Based on ZnSe quantum dots labeling and single particle mode ICP-MS coupled with sandwich magnetic immunoassay for the detection of carcinoembryonic antigen in human serum. *Anal Chim Acta*. 2018 Oct 22;1028:22-31. Other ;Human. 29884350
- **[IF=4.244]** Xu J et al. Surface plasmon resonance sensing with adjustable sensitivity based on a flexible liquid core coupling unit. *Talanta*. 2018 Jul 1;184:468-474. Other ;Human. 29674070