

bsm-1624M**[Primary Antibody]****CEA(B5) Mouse mAb****BioSS**
ANTIBODIES

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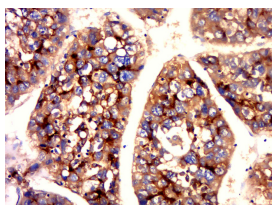
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— DATASHEET —

Host: Mouse	Isotype: IgG	Applications: IHC-P (1:100-500) IHC-F (1:100-500) IF (1:100-500) ELISA Reactivity: Human Predicted MW.: 150-200 kDa Subcellular Location: Cell membrane
Clonality: Monoclonal	CloneNo.: B5	
GeneID: 1048	SWISS: P06731	
Target: CEA(B5)		
Immunogen: KLH conjugated synthetic peptide derived from human CEA/CD66e/CEACAM5: full length.		
Purification: affinity purified by Protein A		
Concentration: 1mg/ml		
Storage: Size : 50ul/100ul/200ul 0.01M PBS (pH7.4) with 0.02% Proclin300. 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 —

Paraformaldehyde-fixed, paraffin embedded (liver 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(B5)) Polyclonal Antibody, Unconjugated (bsm-1624M) at 1:500 overnight at 4°C, followed by a conjugated secondary (sp-0024) for 20 minutes and DAB staining.

— SELECTED CITATIONS —

- **[IF=8.008]** Li Fu. et al. Coreactant-free and Near-Infrared Electrochemiluminescence Immunoassay with n-Type Au

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

Nanocrystals as Luminophores. ANAL CHEM. 2022;94(34):11934–11939 Other ;Other. 35976331

- **[IF=8.008]** Yuqi Xu. et al. Surface Defect-Involved and Single-Color Electrochemiluminescence of Gold Nanoclusters for Immunoassay. ANAL CHEM. 2022;94(35):12070–12077 Other ;Other. 35994734
- **[IF=5.7]** Yu, Qiaoling, et al. "Plasma-enhanced Antibody Immobilization for the Development of a Capillary-based Carcinoembryonic Antigen Immunosensor Using Laser-induced Fluorescence Spectroscopy." Analytical Chemistry ELISA ;="Human". 23547735
- **[IF=5.7]** Yu, Xiaoping, et al. "Motor-based Autonomous Microsensor for Motion and Counting Immunoassay of Cancer Biomarker." Analytical Chemistry (2014). Other ;="Human". 24731140
- **[IF=5.83]** Zong, Chen, et al. "Chemiluminescence imaging immunoassay of multiple tumor markers for cancer screening." Analytical Chemistry 84.5 (2012): 2410-2415. Other ;="Human". 22320247