

bsm-4793M**[Primary Antibody]****CEA Mouse mAb****BioSS**
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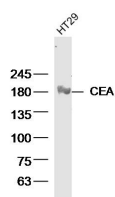
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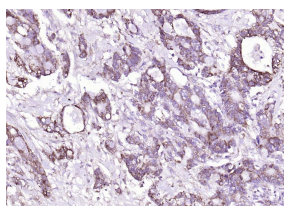
400-901-9800

— DATASHEET —

Host: Mouse	Isotype: IgG2b, Kappa	Applications: WB (1:500-2000) IHC-P (1:100-500) IHC-F (1:100-500) IF (1:100-500)
Clonality: Monoclonal	CloneNo.: 1E3	
GeneID: 1048	SWISS: P06731	
Target: CEA		
Immunogen: KLH conjugated synthetic peptide derived from human CEA/CD66e/CEACAM5: 531-630/702.		
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: HT29 Cell (Human) Lysate at 40 ug
Primary: Anti-CEA (bsm-4793M) at 1/300 dilution
Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution Predicted band size: 150-200kD
Observed band size: 180kD



Paraformaldehyde-fixed, paraffin embedded (human rectal 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-4793M) at 1:200 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=4.5]** Zhiying Tian. et al. Mechanisms of Lung and Intestinal Microbiota and Innate Immune Changes Caused by Pathogenic Enterococcus Faecalis Promoting the Development of Pediatric Pneumonia. MICROORGANISMS. 2023 Sep;11(9):2203 IF ;Mouse. 10.3390/microorganisms11092203