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## CEA Mouse mAb

Catalog Number: bsm-4793M

Target Protein: CEA

Concentration: 1mg/ml

Form: Size : 50ul/100ul/200ul

Liquid

Size : 200ug (PBS only)

Lyophilized

Note: Centrifuge tubes before opening. Reconstitute the lyophilized product in distilled water. Optimal concentration should be determined by the end user.

Host: Mouse

Clonality: Monoclonal

Clone No.: 1E3

Isotype: IgG2b, Kappa

Applications: WB (1:500-2000), IHC-P (1:100-500), IHC-F (1:100-500), IF (1:100-500)

Reactivity: Human

Predicted MW: 150-200 kDa

Entrez Gene: 1048

Swiss Prot: P06731

Source: KLH conjugated synthetic peptide derived from human CEA/CD66e/CEACAM5: 531-630/702.

Purification: affinity purified by Protein A

Storage: Size : 50ul/100ul/200ul

0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

Size : 200ug (PBS only)

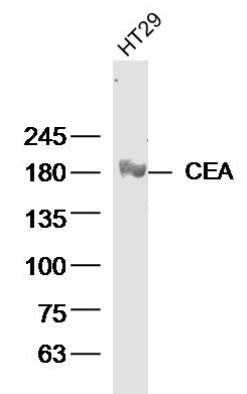
0.01M PBS

Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

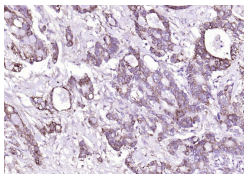
**Background:** CEA-related cell adhesion molecules (CEACAM) belong to the carcinoembryonic antigen (CEA) family. It consists of seven CEACAM (CEACAM 1, CEACAM 3-CEACAM 8) and 11 pregnancy-specific glyco-protein (PSG 1-PSG 11) members. The CEA family proteins belong to the immunoglobulin (Ig) superfamily 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.

## PRODUCT SPECIFIC PUBLICATIONS

[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