bsm-1623M **[Primary Antibody]**

CEA(C3) Mouse mAb

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DATASHEET

Host: Mouse
Isotype: IgG
Clonality: Monoclonal
CloneNo.: C3
GeneID: 1048
SWISS: P06731
Target: CEA(C3)
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.

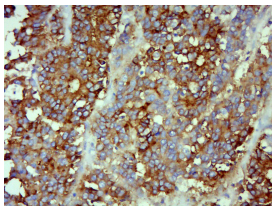
Applications: **IHC-P** (1:100-500)
IHC-F
(1:100-50javascript:;0)
IF (1:100-500)
ELISA

Reactivity: Human

Predicted MW.: 150-200 kDa

Subcellular Location: Cell membrane

VALIDATION IMAGES



Paraformaldehyde-fixed, paraffin embedded (Human 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(C3)) Polyclonal Antibody, Unconjugated (bsm-1623M) at 1:500 overnight at 4°C, followed by a conjugated secondary (sp-0023) 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

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=7.48]** Zong, Chen, et al. "Multilayer hemin/G-quadruplex wrapped gold nanoparticles as tag for ultrasensitive multiplex immunoassay by chemiluminescence imaging." Biosensors and Bioelectronics 43 (2013): 372-378. ELISA ;="". 23356995
- **[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=6.41]** Song, Jie, et al. "Using silver nanocluster/graphene nanocomposite to enhance photoelectrochemical activity of CdS: mn/TiO 2 for highly sensitive signal-on immunoassay." Biosensors and Bioelectronics (2016). Other ;="". 26901458