bs-0719R **[Primary Antibody]**

CEA Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 1048 **SWISS:** P06731

Target: CEA

Immunogen: KLH conjugated synthetic peptide derived from human CEA/CD66e/CEACAM5: 301-400/702.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

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

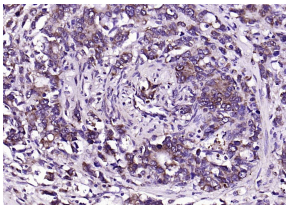
Applications: **IHC-P** (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)
Flow-Cyt (1μg/test)

Reactivity: Human

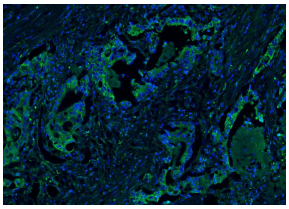
Predicted MW.: 150-200 kDa

Subcellular Location: Cell membrane

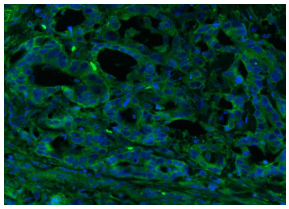
VALIDATION IMAGES



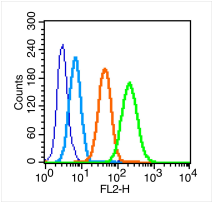
Paraformaldehyde-fixed, paraffin embedded (human rectal carcinoma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (CEA) Polyclonal Antibody, Unconjugated (bs-0719R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



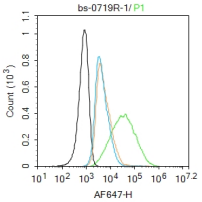
Paraformaldehyde-fixed, paraffin embedded (human rectal carcinoma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (CEA) Polyclonal Antibody, Unconjugated (bs-0719R) at 1:200 overnight at 4°C, followed by a conjugated Goat Anti-Rabbit IgG antibody (bs-0295G-FITC) for 90 minutes, and DAPI for nuclei staining.



Paraformaldehyde-fixed, paraffin embedded (human colon carcinoma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (CEA) Polyclonal Antibody, Unconjugated (bs-0719R) at 1:200 overnight at 4°C, followed by a conjugated Goat Anti-Rabbit IgG antibody (bs-0295G-FITC) for 90 minutes, and DAPI for nuclei staining.



Blank control (blue line): MCF7 (fixed with 70% methanol overnight at 4°C). Primary Antibody (green line): Rabbit Anti-CEA antibody (bs-0719R) Dilution: 0.2μg /10^6 cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody (white blue line): Goat anti-rabbit IgG-PE Dilution: 1μg /test.



Blank control: MCF7. Primary Antibody (green line): Rabbit Anti-CEA antibody (bs-0719R) Dilution: 1μg /10^6 cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody : Goat anti-rabbit IgG-AF647 Dilution: 1μg /test. Protocol The cells were incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

SELECTED CITATIONS

- **[IF=15.1]** Li Song. et al. New luminescent hydrophilic iridium(III) nanoflower at low potential for electrochemiluminescence immunosensing. CHEM ENG J. 2023 Sep;472:144923 Other ;. 10.1016/j.cej.2023.144923
- **[IF=8.008]** Li Fu. et al. A General Route for Chemiluminescence of n-Type Au Nanocrystals. ANAL CHEM. 2022;94(24):8811–8817 Other ;. 35675670
- **[IF=6.914]** Chang N et al. Low cost 3D microfluidic chips for multiplex protein detection based on photonic crystal beads. Lab Chip. 2018 Dec 7;18(23):3638-3644. Other ;Human. 30357200
- **[IF=6.38]** Zhang, Jing-Jing, et al. "??Proof-of-principle?? concept for ultrasensitive detection of cytokines based on the electrically heated carbon paste electrode."hemical Communications 47.23 (2011): 6551-6553. Other ;="". 21547293
- **[IF=6.45]** Chen, Ze-Zhong, et al. "Indirect immunofluorescence detection of E. coli O157: H7 with fluorescent silica Nanoparticles." Biosensors and Bioelectronics (2014). Other ;="". 25460888