

## Mouse Carcinoembryonic Antigen (CEA)/CD66 Monoclonal Antibody | anti-CEA antibody

Carcinoembryonic Antigen (CEA)/CD66

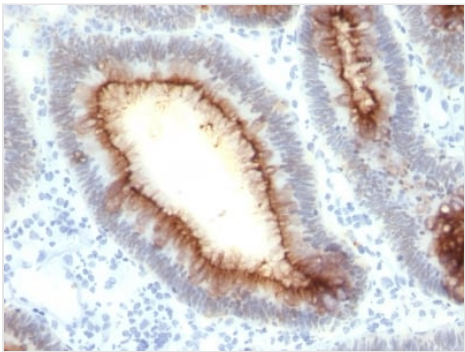
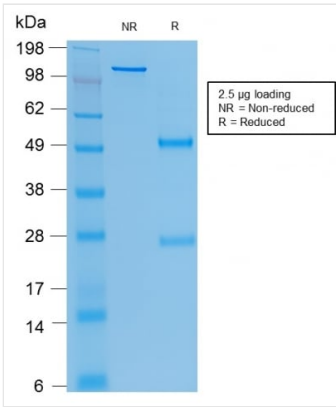
|                              |                      |                                               |                                             |
|------------------------------|----------------------|-----------------------------------------------|---------------------------------------------|
| CATALOG #<br><b>AAA62913</b> | HOST<br><b>Mouse</b> | REACTIVITY<br><b>Human. Others not known.</b> | APPLICATIONS<br><b>Immunohistochemistry</b> |
|------------------------------|----------------------|-----------------------------------------------|---------------------------------------------|

### PRODUCT SYNONYMS

Carcinoembryonic Antigen (CEA)/CD66; Monoclonal Antibody; Carcinoembryonic Antigen-related Cell Adhesion Molecule 5; CEACAM5; CD66; Biliary Glycoprotein (BGP-1); anti-CEA antibody

### PRODUCT SPECIFICATIONS

|                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                          | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Reactivity                                    | Human. Others not known.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Clonality                                     | Monoclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Isotype                                       | IgG1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Clone Number                                  | rC66/1009                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Specificity                                   | This antibody recognizes proteins of 80-200kDa, identified as different members of CEA family. CEA is synthesized during development in the fetal gut and is re-expressed in increased amounts in intestinal carcinomas and several other tumors. This MAb does not react with nonspecific cross-reacting antigen (NCA) and with human polymorphonuclear leucocytes. It shows no reaction with a variety of normal tissues and is suitable for staining of formalin/paraffin tissues. CEA is not found in benign glands, stroma, or malignant prostatic cells. Antibody to CEA is useful in detecting early foci of gastric carcinoma and in distinguishing pulmonary adenocarcinomas (60-70% are CEA+) from pleural mesotheliomas (rarely or weakly CEA+). Anti-CEA positivity is seen in adenocarcinomas from the lung, colon, stomach, esophagus, pancreas, gallbladder, urachus, salivary gland, ovary, and endocervix. |
| Form/Format                                   | 200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Sequence Length                               | 702                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Applicable Applications for anti-CEA antibody | IHC (Immunohistochemistry)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Immunogen                                     | Recombinant full-length human CD66e protein                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Cellular Localization                         | Cytoplasmic and luminal surface                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Hu-chromosome Location                        | 19q13.1-19q13.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Positive Control                              | MCF7 or 293T cells. Colon carcinoma                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Preparation and Storage                       | Antibody with azide - store at 2 to 8 degree C.<br>Antibody without azide - store at -20 to -80 degree C.<br>Antibody is stable for 24 months. Non-hazardous. No MSDS required.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |



**IHC (Immunohistochemistry)**  
Formalin-fixed, paraffin-embedded human Colon Carcinoma stained with CEA Mouse Recombinant Monoclonal Antibody (rC66/1009).

**SDS-PAGE**  
SDS-PAGE Analysis of Purified CEA Mouse Recombinant Monoclonal Antibody (rC66/1009).

ADDITIONAL INFORMATION

|            |                                                                                                                                                                                                                                                                                 |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| References | Shi ZR, et. al. Journal of Histochemistry and Cytochemistry, 1994, 42(9):1215-9. Muraro R, et. al. Cancer Research, 1985, 45:5769-80. Robbins PF, et. al. International Journal of Cancer, 1993, 53(6):892-7. Siler K, et. al. Biotechnology Therapeutics, 1993, 4(3-4):163-81. |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                   |
|----------------------------------|-----------------------------------------------------------------------------------|
| NCBI GI #                        | 612407802                                                                         |
| NCBI GeneID                      | 1048                                                                              |
| NCBI Accession #                 | NP_001278413.1                                                                    |
| NCBI GenBank Nucleotide #        | NM_001291484.2                                                                    |
| UniProt Accession #              | P06731; H9KVA7                                                                    |
| Molecular Weight                 | 80-200kDa                                                                         |
| NCBI Official Full Name          | carcinoembryonic antigen-related cell adhesion molecule 5 isoform 1 preproprotein |
| NCBI Official Synonym Full Names | carcinoembryonic antigen related cell adhesion molecule 5                         |
| NCBI Official Symbol             | CEACAM5                                                                           |
| NCBI Official Synonym Symbols    | CEA; CD66e                                                                        |
| NCBI Protein Information         | carcinoembryonic antigen-related cell adhesion molecule 5                         |
| UniProt Protein Name             | Carcinoembryonic antigen-related cell adhesion molecule 5                         |
| UniProt Gene Name                | CEACAM5                                                                           |
| UniProt Synonym Gene Names       | CEA; CEA                                                                          |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.