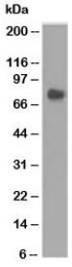
CEA Antibody / CEACAM5 [clone COL-1] (V2087)

Catalog No.	Formulation	Size
V2087-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V2087-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V2087SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V2087IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7 ml

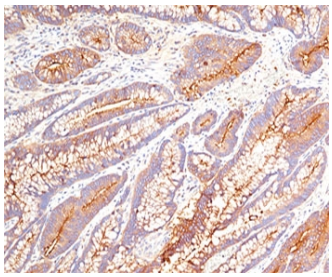
Citations (7)

Bulk quote request

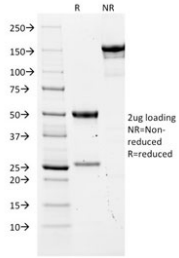
Species Reactivity	Human
Format	Purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2a, kappa
Clone Name	COL-1
Purity	Protein G affinity chromatography
UniProt	P06731
Localization	Cytoplasmic and luminal surface
Applications	Western Blot : 1-2ug/ml Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT (1) (2)
Limitations	This **CEA antibody** is available for research use only.



Western blot testing of human stomach lysate using CEA antibody (COL-1).



IHC testing of FFPE human colon carcinoma stained with CEA antibody (COL-1).



SDS-PAGE analysis of purified, BSA-free CEA antibody (clone COL-1) as confirmation of integrity and purity.

Description

CEA antibody clone COL-1 is a monoclonal antibody directed against carcinoembryonic antigen, a glycoprotein involved in cell adhesion. CEA is normally expressed during fetal development but is largely absent in adult tissues, except for low-level expression in some epithelial cells. It becomes re-expressed and elevated in a wide range of carcinomas, including colorectal, gastric, pancreatic, lung, and breast cancers. Because of this, CEA serves as an important tumor marker in both clinical diagnostics and research. NSJ Bioreagents provides this antibody for oncology and pathology studies.

The antibody produces strong membranous and cytoplasmic staining in adenocarcinomas of the colon and pancreas, as well as in other epithelial-derived malignancies. In diagnostic pathology, it is widely used to confirm adenocarcinoma and to differentiate tumors of epithelial origin from those of other lineages.

In oncology, detection of CEA supports research into tumor progression, metastasis, and therapeutic monitoring. Elevated levels of this glycoprotein correlate with tumor burden and can provide prognostic information. The antibody is therefore useful in experimental systems that model gastrointestinal and pulmonary cancers.

Beyond its value in solid tumors, CEA antibody clone COL-1 has been applied in studies of circulating tumor cells and serum biomarkers. Its ability to detect this antigen at both the cellular and protein level makes it a versatile tool in translational research.

Validated across multiple assay platforms, the antibody consistently produces clear and reproducible results. Alternate names include CEACAM5 antibody, carcinoembryonic antigen-related cell adhesion molecule antibody, and adenocarcinoma marker antibody.

Application Notes

The concentration stated for each application is a general starting point. Variations in protocols, secondaries and substrates may require the CEA antibody to be titered up or down for optimal performance.

1. Staining of formalin-fixed tissues requires boiling tissue sections in pH 9 10mM Tris with 1mM EDTA for 10-20 min followed by cooling at RT for 20 minutes.
2. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After epitope retrieval step (if required), drip mAb solution onto the tissue section and incubate at RT for 30 min.

Immunogen

Human colon carcinoma extract was used as the immunogen for this CEA antibody.

Storage

Store the CEA antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

References (4)