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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

Anti-Carcinoembryonic Antigen [COL-1] Bulk Size Ab03385-10.0-BT

This chimeric human antibody was made using the variable domain sequences of the original Mouse IgG2a format for improved compatibility with existing reagents assays and techniques.

Isotype and Format: Human IgG1, Kappa

Clone Number: COL-1

Alternative Name(s) of Target: CEA

UniProt Accession Number of Target Protein: Q13984

Published Application(s): in vivo, RIA, therapeutic, WB, IF, IHC

Published Species Reactivity: Human

Immunogen: The original antibody was generated by immunizing BALB/c mice with extracts or membrane-enriched fractions of biopsy material from either primary or metastatic colon carcinoma lesions.

Specificity: The antibody is specific for CEA. COL-1 does not cross-react with NCA, NFA-1, BGP and PMNs. CEA is one of the most commonly used tumor markers in serum immunoassay determinations of carcinoma.

Application Notes: The antibody reacted with purified carcinoembryonic antigen in solid-phase radioimmunoassay and by Western Blot analysis. The antibody was tested by fluorescence-activated cell sorting for cell surface binding to the LS174T WiDr and HT-29 colon carcinoma cell lines. The antibody was tested by FACS for binding to the surface of normal human polymorphonuclear leukocytes where it appeared nonreactive (Muraro et al., 1985; PMID: 2413997). The antibody was shown to bind CEA with a K_a of $1.4 \times 10^9 \text{ M}^{-1}$ (Kuroki et al., 1989; PMID: 2474516). The antibody was used for immunohistochemistry on colorectal, gastric, and lung adenocarcinoma tumor tissues. In addition, pancreatic, breast, gallbladder, bile duct, malignant ovarian teratoma, mucinous endometrial carcinoma, colon cancer, remote colon mucosa and bladder cancer stained positive (Shi et al., 1994; PMID: 7520463 and Robbins et al., 1993; PMID: 8386136). The antibody reacted by immunofluorescence with a mouse colon adenocarcinoma MC-38 expressing high levels of cell-surface CEA cell line, but not with the NCA or BGP transfectants (Robbins et al., 1993; PMID: 8386136). ¹²⁵I-labeled COL-1 IgG was shown to efficiently and specifically target the LS-174T human colon carcinoma xenograft in athymic mice. ¹³¹I-labeled COL-1 demonstrated a reduction of tumor growth rate in the same model (Siler et al., PMID: 8292968). ¹¹³¹I-labeled COL-1 was tested in phase I trial in patients with gastrointestinal malignancies (Yu et al. 1996). The humanized version of the antibody was constructed and used in the detection and treatment of a CEA-expressing tumor (US8828717B2).

Antibody First Published in: Muraro et al. Definition by monoclonal antibodies of a repertoire of epitopes

on carcinoembryonic antigen differentially expressed in human colon carcinomas versus normal adult tissues Cancer Res. 1985 Nov;45(11 Pt 2):5769-80. [PMID:2413997](#)

Note on publication: The original paper describes the generation and characterization of a set of antibodies. The antibodies show selective reactivity for human colon carcinomas.

Product Form

Size: 1 mg Purified antibody in bulk size.

Purification: Protein A affinity purified

Supplied In: PBS only.

Storage Recommendation: Store at 4°C for up to 3 months. Note, this antibody is provided without added preservatives, it is therefore recommended this antibody be handled under sterile conditions. For longer storage, aliquot and store at -20°C.

Concentration: 1 mg/ml.

Important note - This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.