

CEACAM19 (HY-8H10): sc-101373

BACKGROUND

The carcinoembryonic antigen (CEA) family belongs to the immunoglobulin superfamily. Members of the CEA family have been shown to be expressed in a number of tumors of epithelial origin, such as lung adenocarcinoma, colorectal carcinoma and endometrial adenocarcinoma. CEA family members also function in signal transduction or regulation of signal transduction. CEACAM19 (carcinoembryonic antigen-related cell adhesion molecule 19), also known as carcinoembryonic antigen-like 1, is a 300 amino acid protein that belongs to the CEA family. CEACAM19 is expressed ubiquitously, with highest expression in prostate, uterus, mammary gland, adrenal gland, small intestine, kidney, skeletal muscle and fetal brain. Also, CEACAM19 is expressed highly in breast and prostate cancer cell lines. Two isoforms of CEACAM19 exist as a result of alternative splicing events.

REFERENCES

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5. Arrieta, O., et al. 2009. Brain metastasis development and poor survival associated with carcinoembryonic antigen (CEA) level in advanced non-small cell lung cancer: a prospective analysis. *BMC Cancer* 9: 119.
6. Shibata, S., et al. 2009. A phase I study of a combination of yttrium-90-labeled anti-carcinoembryonic antigen (CEA) antibody and gemcitabine in patients with CEA-producing advanced malignancies. *Clin. Cancer Res.* 15: 2935-2941.
7. Lutterbuese, R., et al. 2009. Potent control of tumor growth by CEA/CD3-bispecific single-chain antibody constructs that are not competitively inhibited by soluble CEA. *J. Immunother.* 32: 341-352.
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STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.

CHROMOSOMAL LOCATION

Genetic locus: CEACAM19 (human) mapping to 19q13.31.

SOURCE

CEACAM19 (HY-8H10) is a mouse monoclonal antibody genetically immunized with cDNA encoding CEACAM19 of human origin.

PRODUCT

Each vial contains 200 µg IgG₁ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

CEACAM19 (HY-8H10) is available conjugated to agarose (sc-101373 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-101373 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-101373 PE), fluorescein (sc-101373 FITC), Alexa Fluor® 488 (sc-101373 AF488), Alexa Fluor® 546 (sc-101373 AF546), Alexa Fluor® 594 (sc-101373 AF594) or Alexa Fluor® 647 (sc-101373 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-101373 AF680) or Alexa Fluor® 790 (sc-101373 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

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APPLICATIONS

CEACAM19 (HY-8H10) is recommended for detection of CEACAM19 of human origin by flow cytometry (1 µg per 1 x 10⁶ cells) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for CEACAM19 siRNA (h): sc-97512, CEACAM19 shRNA Plasmid (h): sc-97512-SH and CEACAM19 shRNA (h) Lentiviral Particles: sc-97512-V.

Molecular Weight of CEACAM19: 33 kDa.

RESEARCH USE

For research use only, not for use in diagnostic procedures.