

11-479-C100

## Monoclonal Antibody to CD66e Purified Antibody (0.1 mg)

<b>Clone:</b>	CB30
<b>Isotype:</b>	Mouse IgG1
<b>Specificity:</b>	The antibody CB30 recognizes CD66e (CEA; 180-200 kDa), a cell surface bound carcinoembryonic antigen mainly expressed on epithelial cells.
<b>Regulatory Status:</b>	RUO
<b>Immunogen:</b>	Human carcinoembryonic antigen (CEA; CEACAM5)
<b>Species Reactivity:</b>	Human
<b>Application:</b>	Flow Cytometry Immunoprecipitation Immunohistochemistry (paraffin sections) Staining technique: Standard ABC technique (DAB+) Recommended dilution: 10 µg/ml (1:100) Positive tissue: Adenocarcinoma of colon Pretreatment: 0,1% pepsin in 0,1 M HCl for 30 min at room temperature Immunohistochemistry (frozen sections)
<b>Purity:</b>	> 95% (by SDS-PAGE)
<b>Purification:</b>	Purified by protein-A affinity chromatography
<b>Concentration:</b>	1 mg/ml
<b>Storage Buffer:</b>	Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4
<b>Storage / Stability:</b>	Store at 2-8°C. Do not freeze. Do not use after expiration date stamped on vial label.
<b>Expiration:</b>	See vial label
<b>Lot Number:</b>	See vial label
<b>Background:</b>	<p>The CD66e (CEA; 180-200 kDa) is a member of carcinoembryonic antigens, immunoglobulin supergene family and consists of a single N domain (structural homology to the immunoglobulin variable) and six immunoglobulin constant-like A (A1, A2, A3) and B domains (B1, B2, B3). Human CD66e is heavily glycosylated GPI anchored protein capable of both homophilic and heterophilic adhesion.</p> <p>Disease relevance: The CD66e may play a role in the process of metastasis of cancer cells. CD66e is found in serum and it is clinically used as a tumor marker for early detection of disease due to its expression in adenocarcinomas - potential target of tumor imaging and drug targeting.</p>

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**Antibodies**

- References:**
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  - \*Oikawa S, Nakazato H, Kosaki G: Primary structure of human carcinoembryonic antigen (CEA) deduced from cDNA sequence. *Biochem Biophys Res Commun.* 1987 Jan 30;142(2):511-8.
  - \*Chen CJ, Li LJ, Maruya A, Shively JE: In vitro and in vivo footprint analysis of the promoter of carcinoembryonic antigen in colon carcinoma cells: effects of interferon gamma treatment. *Cancer Res.* 1995 Sep 1;55(17):3873-82.
  - \*Koga S, Oshima Y, Honkura N, Imura T, Kameda K, Sato K, Yoshida M, Yamamoto Y, Watanabe Y, Hikita A, Imamura T: In vivo subcellular imaging of tumors in mouse models using a fluorophore-conjugated anti-carcinoembryonic antigen antibody in two-photon excitation microscopy. *Cancer Sci.* 2014 Oct;105(10):1299-306.
  - \*Wang L, Ma N, Okamoto S, Amaishi Y, Sato E, Seo N, Mineno J, Takesako K, Kato T, Shiku H: Efficient tumor regression by adoptively transferred CEA-specific CAR-T cells associated with symptoms of mild cytokine release syndrome. *Oncoimmunology.* 2016 Jul 25;5(9):e1211218.

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