



11-479-C025

Monoclonal Antibody to CD66e Purified Antibody (0.025 mg)

Clone:	CB30
Isotype:	Mouse IgG1
Specificity:	The antibody CB30 recognizes CD66e (CEA; 180-200 kDa), a cell surface bound carcinoembryonic antigen mainly expressed on epithelial cells.
Regulatory Status:	RUO
Immunogen:	Human carcinoembryonic antigen (CEA; CEACAM5)
Species Reactivity:	Human
Application:	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)
Purity:	> 95% (by SDS-PAGE)
Purification:	Purified by protein-A affinity chromatography
Concentration:	1 mg/ml
Storage Buffer:	Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4
Storage / Stability:	Store at 2-8°C. Do not freeze. Do not use after expiration date stamped on vial label.
Expiration:	See vial label
Lot Number:	See vial label
Background:	<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:**
- *Gangopadhyay A, Bajenova O, Kelly TM, Thomas P: Carcinoembryonic antigen induces cytokine expression in Kupffer cells: implications for hepatic metastasis from colorectal cancer. *Cancer Res.* 1996 Oct 15;56(20):4805-10.
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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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EXBIO Praha | Nad Safinou II 341 | 252 50 Vestec u Prahy | Czech Republic
Tel: +420 261 090 666 | Fax: +420 261 090 660 | orders@exbio.cz | www.exbio.cz