

TECHNICAL DATA SHEET

CyFlow™ CD66e Purified Anti-Hu; Clone CB30

REF CU348583

For Research Use Only.

Not for use in diagnostic or therapeutic procedures.

Specifications

Antigen	CD66e
Alternative Names	CEA
Clone	CB30
Clonality	monoclonal
Format	Purified
Host / Isotype	Mouse / IgG1
Species Reactivity	Human
Negative Species Reactivity	—
Quantity [Concentration]	0.1 mg [1 mg/ml]
Immunogen	Human carcinoembryonic antigen (CEA; CEACAM5)

Specificity

The mouse monoclonal antibody CB30 recognizes CD66e antigen, a cell surface bound carcinoembryonic antigen mainly expressed on epithelial cells.

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Application

Based on published sources, this antibody is suitable for the following applications:

- Flow cytometry
- Immunoprecipitation
- Immunohistochemistry

Storage Buffer

The reagent is provided in phosphate buffered saline (PBS) solution, pH $\approx$ 7.4, containing 0.1% (w/v) sodium azide.

Storage and Stability

Storage	Avoid prolonged exposure to light. Store in the dark at 2-8°C. Do not freeze.
Stability	Do not use after expiration date stamped on vial label.

Background Information

The CD66e (CEA) is a 180-200 kDa 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. 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.

References

- 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. < PMID: 3814146 >
- Thompson JA, Grunert F, Zimmermann W: Carcinoembryonic antigen gene family: molecular biology and clinical perspectives. J Clin Lab Anal. 1991; 5(5):344-66. < PMID: 1941355 >
- 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. < PMID: 7641207 >

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- Gangopadhyay A, Bajenova O, Kelly TM, Thomas P: Carcinoembryonic antigen induces cytokine expression in Kuppfer cells: implications for hepatic metastasis from colorectal cancer. Cancer Res. 1996 Oct 15; 56(20):4805-10. < PMID: 8841002 >

The Safety Data Sheet for this product is available at www.sysmex-partec.com/services.

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