

# Datasheet



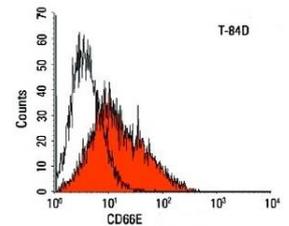
Mouse mAb to **CD66e**  
Clone **EBS-CD-038**  
Isotype **IgG2a-κ**

## Source

A BALB/c mouse was immunized with human colon carcinoma cells.  
Fusion partner: NS-1.

## Specifications

EBS-CD-038 recognizes a peptide epitope on CD66e or carcinoembryonic antigen (CEA), a family of proteins of 80-200 kDa. CEA is synthesized during development in the fetal gut and is re-expressed in increased amounts in intestinal carcinomas and several other tumors. CEA is not found in benign glands, stroma, or malignant prostatic cells. Antibody to CEA is useful in detecting early foci of gastric carcinoma and in distinguishing pulmonary adenocarcinomas (60-70% are CEA<sup>+</sup> from pleural mesotheliomas (rarely or weakly CEA<sup>+</sup>). Anti-CEA positivity is seen in adenocarcinomas from the lung, colon, stomach, esophagus, pancreas, gallbladder, urachus, salivary gland, ovary, and endocervix. EBS-CD-038 cross-reacts with nonspecific cross-reacting antigen (NCA; CD66c).



**Figure 1:** T-84D cells stained for CD66e (FACS).

## Species reactivity

Positive: human.

## Applications

Demonstration of CEA peptide.

Flow cytometry	Frozen sections	Immunofluorescence
+	+	+

## Format

Produced in tissue culture, contains no host Ig. Antibodies are affinity purified and presented in PBS with 0,02% sodium azide.

Stored at 4°C-8°C, shelf life is at least 24 months after purchase.

## Dilution advice

- Flow cytometry (0,5-1,0 µg/million cells in 0,1 ml).
- Immunofluorescence (0,5-1,0 µg/ml).
- Immunohistology (1-2 µg/ml for 30 min at RT; an appropriate antigen retrieval method for staining of formalin-fixed tissues has not been established to date).

## Positive control

MCF7 cells, 293T cells, colon carcinoma.

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## References

- Muraro R, et. al. *Cancer Res*, 45: 5769-80 (1985).
- Siler K, et. al. *Biotechn. Ther.* 4(3-4): 163-81 (1993).
- Robbins PF, et. al. *Int J Cancer* 53(6): 892-7 (1993).
- Shi ZR, et. al. *J Histochem Cytochem* 42(9): 1215-9 (1994).