

Mouse Monoclonal Antibody to Human CEACAM5 / CD66e



Catalog Number: 11077-MM07

General Information	
Immunogen:	Recombinant Human CD66e protein (Catalog#11077-H08H)
Clone ID:	1B8E7
Ig Type:	Mouse IgG1
Applications:	ELISA
Specificity:	Human CEACAM5 / CD66e
Formulation:	0.2 µm filtered solution in PBS with 5% trehalose
Storage:	< -20° C

Preparation

This antibody was produced from a hybridoma resulting from the fusion of a mouse myeloma with B cells obtained from a mouse immunized with purified, recombinant Human CEACAM5 / CD66e (rh CEACAM5 / CD66e; Catalog#11077-H08H; NP_004354.2; Met 1-Ala 685). The IgG fraction of the cell culture supernatant was purified by Protein A affinity chromatography.

Applications

Direct ELISA – This antibody can be used at 0.5-1 µg/mL with the appropriate secondary reagents to detect Human CEACAM5. The detection limit for Human CEACAM5 is approximately 0.0195 ng/well.

Specificity

Human CEACAM5 / CD66e

No cross-reactivity in ELISA with

Human CEACAM1

Human CEACAM6

Human CEACAM3

Human CEACAM8

Human cell lysate (293 cell line)

Storage

This antibody can be stored at 2°C-8°C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20°C to -70°C. **Preservative-Free.**

Sodium azide is recommended to avoid contamination (final concentration 0.05%-0.1%). It is toxic to cells and should be disposed of properly. **Avoid repeated freeze-thaw cycles.**

Background

CEACAM5, also known as CEA or D66e, belongs to the large CEACAM subfamily of immunoglobulin superfamily. CEACAM5 is expressed primarily by epithelial cells, and is synthesized as a glycoprotein with a MW of 180 kDa comprising 60% carbohydrate. CEACAM5 contains one Ig-like V-type domain at the N-terminus, followed by six Ig-like C2-type domain and a GPI anchor, and exists as a homodimer. It functions as a homotypic intercellular adhesion molecule and serves as a widely used tumor marker, since it is expressed at higher levels in tumorous tissues than in corresponding normal tissues. CEACAM5 has also been shown to contribute to tumorigenicity by inhibiting cellular differentiation. In addition, CEACAM5 is identified as the host receptor for the Dr family of adhesins of E.Coli, and the binding of E.coli Dr adhesins leads to dissociation of the CEACAM5 homodimer.

Reference

1. Schrewe H. et al., 1990, Mol. Cell. Biol. 10: 2738-48.
2. Korotkova N. et al., 2008, Mol. Microbiol. 67: 420-34.
3. Taheri M. et al., 2000, J. Biol. Chem. 275: 26935-43.
4. Boehm M.K. et al., 2000, FEBS Lett. 475: 11-6.

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