



Catalog Number:	MO15123	Host:	Mouse
Product Type:	Mouse IgG ₁ . Clone: 283324	Species Reactivity:	Human
Immunogen Sequence:	Purified, NS0-derived, recombinant human CEACAM-1 extracellular domain (rhCEACAM-1; aa 35 - 428; Accession # NP_001703).	Format:	Liquid 1mg/ml Solution in phosphate-buffered saline (PBS) with 5% Trehlose
Applications:	Western Blot: 1 – 2 µg/mL ELISA capture: 2 - 8 µg/mL		

Dilutions listed as a recommendation. Optimal dilution should be determined by investigator.

Storage: Antibody can be aliquotted and stored frozen at -20° C to -70° C in a manual defrost freezer for six months without detectable loss of activity. The antibody can be stored at 2° - 8° C for 1 month without detectable loss of activity. *Avoid repeated freeze-thaw cycles.*

Application Notes

Specificity

This antibody detects rhCEACAM-1 in direct ELISAs and Western blots. In these applications, this antibody does not cross-react with rhCD31, rhICAM-1, -2, -3, rmMAdCAM-1, or rhVCAM-1.

Western blot

This antibody can be used at 1 - 2 µg/mL with the appropriate secondary reagents to detect human CEACAM-1. Using a colorimetric detection system, the detection limit for rhCEACAM-1 is approximately 25 ng/lane under non-reducing and reducing conditions. Chemiluminescent detection will increase sensitivity by 5 to 50 fold.

ELISA capture

This product can be used as a capture reagent in a human CEACAM-1 sandwich immunoassay in combination with biotinylated human CEACAM-1 detection antibody and recombinant human CEACAM-1 as the standard. The suggested coating concentration range is 2 - 8 µg/mL and should be titrated to determine the optimal concentration. In this application, no cross-reactivity was observed with rhCEACAM-3, rhCEACAM-5, or rhCEACAM-6.

Description/Data:

CEACAM-1 (BGP-1 or CD66a) belongs to the carcinoembryonic antigen (CEA) gene family. This antibody is an excellent for cells of epithelial and myeloid origin.

CEACAM-1 expression is downregulated in many tumors indicating a tumor - suppressive function. The antitumor effect may be due to inhibition of tumor angiogenesis, possibly by increased secretion of antiangiogenic molecules from the cells. Like all members of the CEACAM family, it consists of a single N domain, with structural homology to the immunoglobulin variable domains, followed by two immunoglobulin constant-like A (A1, A2) and one B domain. While the N, A1 and B domains can also be found in other CEA-family members, the A2 domain of CEACAM-1 differs from those found in other CEACAM.

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