

Product datasheet for **DM1215**

CEACAM5 Mouse Monoclonal Antibody [Clone ID: 26/5/1]

Product data:

Product Type:	Primary Antibodies
Clone Name:	26/5/1
Applications:	ELISA, FC, IF, IHC, WB
Recommended Dilution:	Flow Cytometry: 1.2 µg/10 ⁶ cells. ELISA: 1/200-1/400. Cell based ELISA with intact, transiently transfected cells: 1/200. Western blot: 4 µg/ml. Immunohistochemistry on Frozen Sections: 1-2 µg/10 ⁶ cells (on cryosections).
Reactivity:	Human
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Immunisation with extracted protein of CEACAM5
Specificity:	This antibody reacts to CD66e / CEACAM5.
Formulation:	Phosphate buffered saline, pH 7.2 State: Purified State: Liquid purified IgG fraction
Concentration:	lot specific
Purification:	Affinity Chromatography on Protein G
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	carcinoembryonic antigen related cell adhesion molecule 5
Database Link:	Entrez Gene 1048 Human P06731



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Background:

CEACAM5 (CEA-related cell adhesion molecule 5, CEA) belongs to the carcinoembryonic antigen (CEA) gene family (1,2). It encodes a glycosyl phosphatidyl inositol (GPI)-linked glycoprotein with a Mr of 180,000-200,000 which is most strongly expressed on epithelial cells of the fetal and adult colon and to a minor extent on epithelial cells of the stomach and sweat glands, squamous epithelial cell of the tongue, esophagus and cervix. CEACAM5 is used as a tumor marker for early detection of recurrent disease due to its expression in adenocarcinomas of the colon, lung, breast, stomach and pancreas and in mucinous ovarian carcinomas (3). Like all members of the CEACAM family, it consists of a single N domain, with structural homology to the immunoglobulin variable domains, followed by six immunoglobulin constant-like A (A1, A2, A3) and B domains (B1, B2, B3).

Synonyms:

CEA, Carcinoembryonic antigen

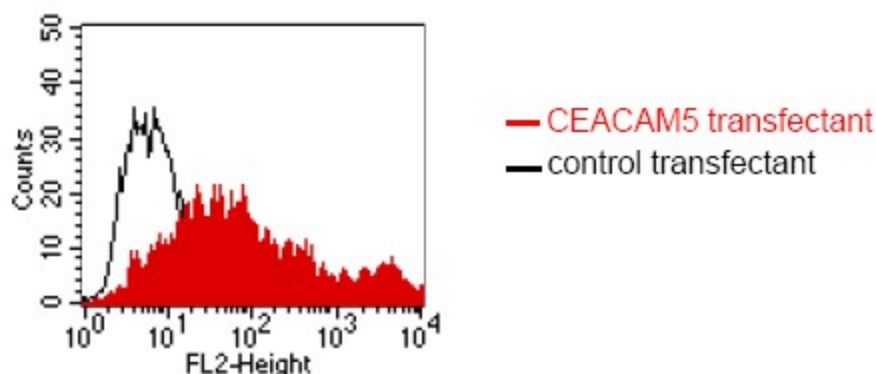
Product images:


Fig.1: FACS analysis of BOSC23 cells using 26/5/1. BOSC23 cells were transiently transfected with an expression vector encoding either CEACAM5 (red curve) or an irrelevant protein (control transfectant). Binding of 26/5/1 was detected with a PE conjugated secondary antibody. A positive signal was obtained only with CEACAM5 transfected cells.

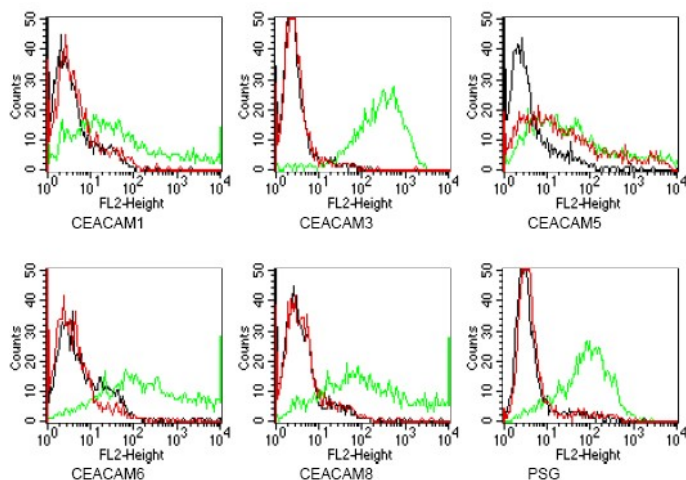


Fig2: Members of the CEA family were expressed on BOSC cells after transient transfection with expression vectors containing either the cDNA of CEACAM1, 5, 6 or 8. Recognition of CEACAM3 and of a recombinant transmembrane-anchored PSG1 fusion protein was tested on stably transfected HeLa cells. Expression of the constructs was confirmed with monoclonal antibodies known to recognize the corresponding proteins (CEACAM1, 3, 5 and 6: D14HD11; CEACAM8: 80H3; PSG: Brifed 26/5/1 was tested on all CEACAM transfectants. A positive signal was only obtained with CEACAM5 expressing cells (red curves).