

## Product datasheet for **DM1202**

### CEACAM5 Mouse Monoclonal Antibody [Clone ID: 26/3/13]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	26/3/13
Applications:	ELISA, FC, IF, IHC, WB
Recommended Dilution:	<b>ELISA:</b> 1/200-1/400. <b>Cell based ELISA</b> with intact, transiently transfected cells: 1/200. <b>Flow Cytometry:</b> 1.2 µg/10 <sup>6</sup> cells. <b>Immunofluorescence:</b> 1/200. <b>Western blot:</b> 4 µg/ml. <b>Immunohistochemistry on Cryo -Sections:</b> 1-2 µg/10 <sup>6</sup> cells.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Extracted protein of CEACAM5. <b>Selection:</b> Based on recognition of the complete <b>native protein</b> expressed on transfected mammalian cells
Specificity:	This antibody recognizes exclusively CEACAM5.
Formulation:	PBS, pH 7.2 without preservatives State: Purified State: Liquid purified Ig fraction
Concentration:	lot specific
Purification:	Protein G Chromatography
Conjugation:	Unconjugated
Storage:	Store 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



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**Database Link:** [Entrez Gene 1048 Human P06731](#)

**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:

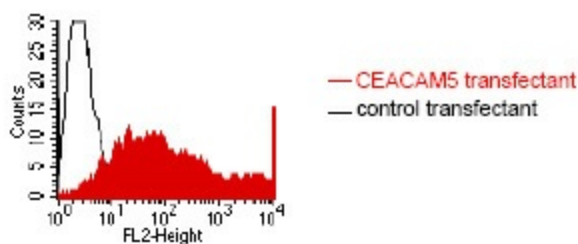


Figure 2. FACS analysis of BOSC23 cells using 26/3/13 antibody. BOSC23 cells were transiently transfected with an expression vector encoding either CEACAM5 (red curve) or an irrelevant protein (control transfectant). Binding of 26/3/13 was detected with a PE conjugated secondary antibody. A positive signal was obtained only with CEACAM5 transfected cells.

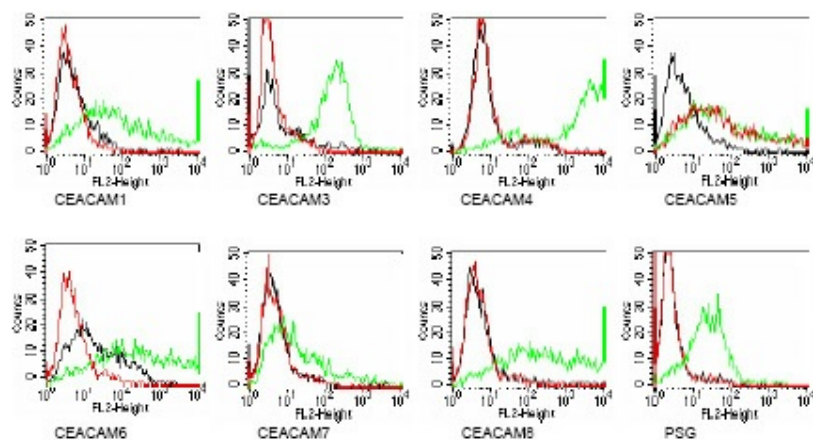


Figure 1. Specificity testing of 26/3/13. BOSC23 cells were transiently transfected with expression vectors containing either the cDNA of CEACAM1, CEACAM5-8. Recognition of CEACAM3, 4 and of a recombinant transmembrane-anchored PSG1 fusion protein was tested on stably transfected HeLa (CEACAM3, PSG) and CHO cells (CEACAM4), respectively. Expression of the constructs was confirmed with monoclonal antibodies known to recognize the corresponding proteins (CEACAM1, 3, 4, 5 and 6: D14HD11; CEACAM7: CAC2; CEACAM8: TET2; PSG: Brifed 26/3/13 was tested on all CEACAM transfectants. A positive signal was only obtained with CEACAM5 expressing cells (red curves).