

Product datasheet for **DM1207**

CEACAM7 Mouse Monoclonal Antibody [Clone ID: BAC2]

Product data:

Product Type:	Primary Antibodies
Clone Name:	BAC2
Applications:	ELISA, FC, IF, IHC
Recommended Dilution:	ELISA: 1/200-1/400. Cell based ELISA with intact, transiently transfected cells: 1/200. Flow cytometry: 1.2 µg/10 ⁶ cells.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	CEACAM7/Fc fusion protein
Specificity:	This antibody recognizes CEACAM7.
Formulation:	Phosphate buffered saline, pH 7.2 without preservatives State: Purified State: Liquid purified Ig 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 7
Database Link:	Entrez Gene 1087 Human Q14002



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Background:

CEA-related cell adhesion molecule 7 (CEACAM7, CGM2) belongs to the carcinoembryonic antigen (CEA) family (1). It encodes a glycosyl phosphatidyl inositol (GPI)-linked glycoprotein which is only found on the apical surface of highly differentiated epithelial cells adult colon and on a small epithelial cell population in pancreatic ducts (2). CEACAM7 expression is completely lost upon malignant transformation already in hyperplastic polyps and early adenomas as well as in adenocarcinomas of the colon (2). Like all members of the CEACAM family, it consists of a single N domain, with structural homology to the immunoglobulin variable domains, followed by one immunoglobulin constant-like A domain.

Synonyms:

CGM2

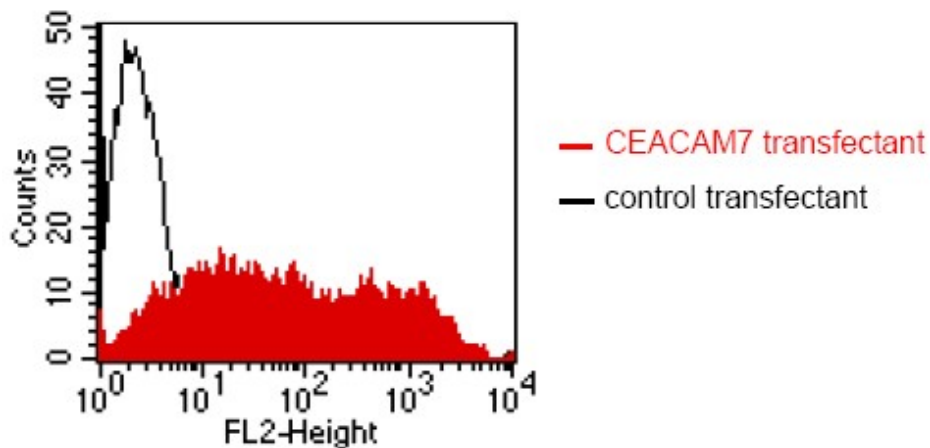
Product images:


Figure 1. FACS analysis of BOSC23 cells using BAC2. BOSC23 cells were transiently transfected with an expression vector encoding either CEACAM7 (Red curve) or an irrelevant protein (control transfectant). Binding of BAC2 was detected with a PE conjugated secondary antibody. A positive signal was obtained only with CEACAM7 transfected cells.

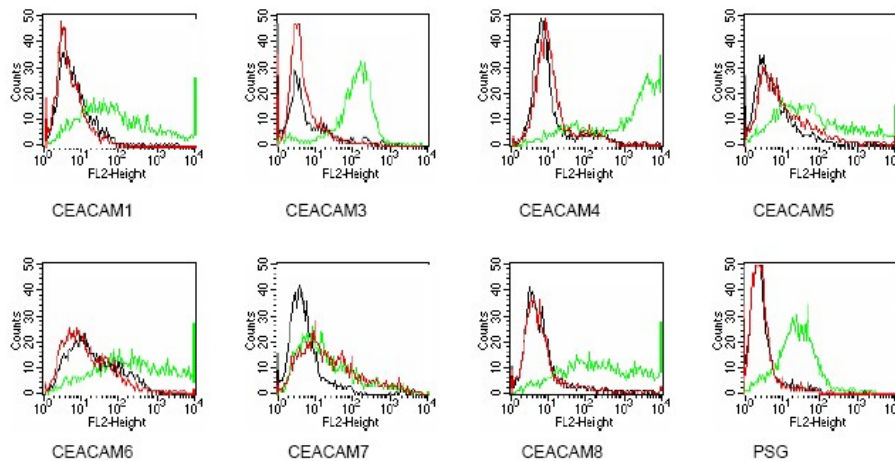


Figure 2. Members of the CEACAM family were expressed on BOSC cells after transient transfection with expression vectors containing either the cDNA of CEACAM1, 5, 6, 7, 8 or a recombinant trans-membrane-anchored PSG1 fusion protein. Recognition of CEACAM3, CEACAM4 and PSG1 was tested on stably transfected 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: Briefed BAC2 was tested on all CEACAM transfectants. A positive signal was only obtained with CEACAM7 expressing cells (Red curves).