

Product datasheet for **AM02001PU-N**

CEACAM6 Mouse Monoclonal Antibody [Clone ID: 9A6]

Product data:

Product Type:	Primary Antibodies
Clone Name:	9A6
Applications:	ELISA, FC, IHC, WB
Recommended Dilution:	ELISA: 1/200-1/400. Cell based ELISA with intact, transiently transfected cells: 1/200-1/400. Western blot: 4 µg/ml. Flow Cytometry: 1.2 µg/10 ⁶ cells. Immunohistology on Cryo-Sections: 1-2 µg/10 ⁶ cells. For various applications see list of References.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Tumor cell lines expressing CEACAM6 (1,2)
Specificity:	9A6 recognizes exclusively CEACAM6 transiently expressed on the cell surface of transfected BOSC cells (Fig. 1). 9A6 can be used to distinguish CEACAM6 from all other CEACAM and probably all pregnancy-specific glycoproteins molecules, namely CEACAM1 (BGP/CD66a), CEACAM3 (CGM1/CD66d), CEACAM4 (CGM7), CEACAM6 (NCA/CD66c), CEACAM7 (CGM2), CEACAM8 (CGM6/CD66b) and PSG1 (CD66f) based on its reactivity pattern with stable HeLa transfectants expressing individual CEA family members (3 and Fig.1). 9A6 was included and characterized in the framework of the V1th Leucocyte Typing Workshop.
Formulation:	PBS, pH 7.2 without preservatives State: Purified State: Liquid purified IgG fraction
Concentration:	lot specific
Purification:	Affinity Chromatography on Protein G
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.



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Stability:	Shelf life: one year from despatch.
Gene Name:	carcinoembryonic antigen related cell adhesion molecule 6
Database Link:	Entrez Gene 4680 Human P40199
Background:	CEA-related cell adhesion molecule 6 (CEACAM6, NCA) belongs to the carcinoembryonic antigen (CEA) gene family (13). It encodes a glycosyl phosphatidyl inositol (GPI)-linked glycoprotein with a Mr of 90,000 which is strongly expressed on epithelial cells of the fetal and adult gastrointestinal tract, epithelia of glandular tissues, squamous epithelial cell of the tongue, esophagus and cervix as well as on granulocytes (Fig. 2; Ref. 4, 10). CEACAM6 expression is upregulated in many adenocarcinomas (4) and leukemias (5). Like all members of the CEA family, it consists of a single N domain, with structural homology to the immunoglobulin variable domains, followed by one immunoglobulin constant-like A and B domain.
Synonyms:	Normal cross-reacting antigen, Non-specific crossreacting antigen, NCA

Product images:

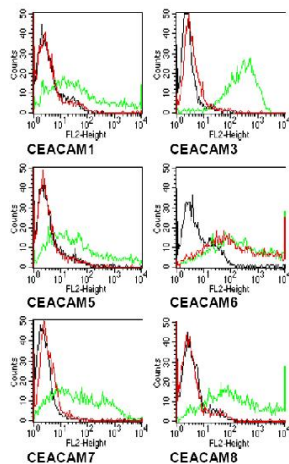


Figure 1: Specificity testing of 9A6. Members of the CEA family were expressed on BOSC cells after transient transfection with expression vectors containing either the cDNA of CEACAM1, 5, 6, 7 or 8. Recognition of CEACAM3 and 4 was tested on stably transfected HeLa (CEACAM3) and CHO cells (CEACAM4). 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: 80H3; green curves). An irrelevant monoclonal antibody served as a negative control (black curves). For specificity testing, protein G-purified GM-9A6 was tested on all CEACAM transfectants. A positive signal was only obtained with CEACAM6-expressing cells (red curves).

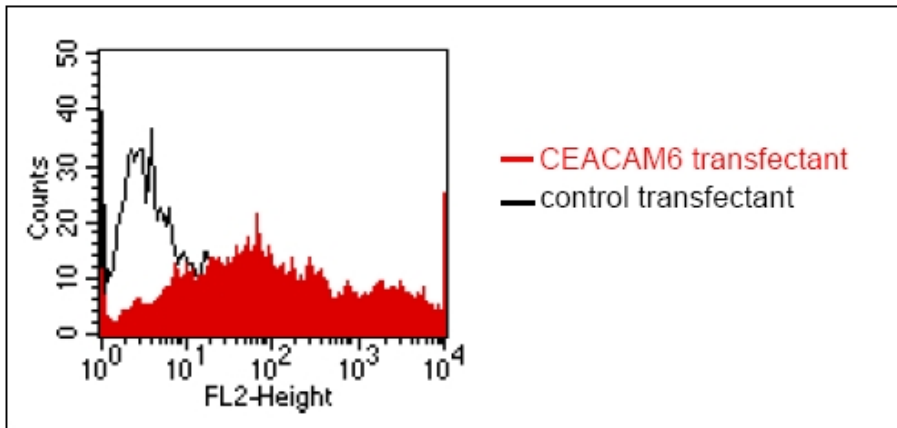


Figure 2: FACS analysis of BOSC23 cells using CEACAM6 antibody Clone 9A6. BOSC23 cells were transiently transfected with an expression vector encoding either CEACAM6 (red curve) or an irrelevant protein (control transfectant). Binding of 9A6 was detected with a PE conjugated secondary antibody. A positive signal was obtained only with CEACAM6 transfected cells.