

## Product datasheet for **AM32984PU-N**

### CEACAM16 Mouse Monoclonal Antibody [Clone ID: SU-9D5]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	SU-9D5
Applications:	ELISA, FC, IHC, WB
Recommended Dilution:	<b>Flow Cytometry:</b> 1.2 µg/10 <sup>6</sup> cells. <b>Cell based ELISA</b> with intact, transiently transfected cells: 1/200-1/400. <b>Immunohistochemistry on Paraffin Sections:</b> 4 µg/ml.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG2b
Clonality:	Monoclonal
Immunogen:	cDNA encoding Human CEACAM16
Specificity:	Recognizes Human CEACAM16. <b>Selection:</b> based on recognition of the complete native protein expressed on transfected mammalian cells.
Formulation:	PBS, pH 7.2 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.
Stability:	Shelf life: one year from despatch.
Gene Name:	carcinoembryonic antigen related cell adhesion molecule 16
Database Link:	<a href="#">Entrez Gene 388551 Human Q2WEN9</a>

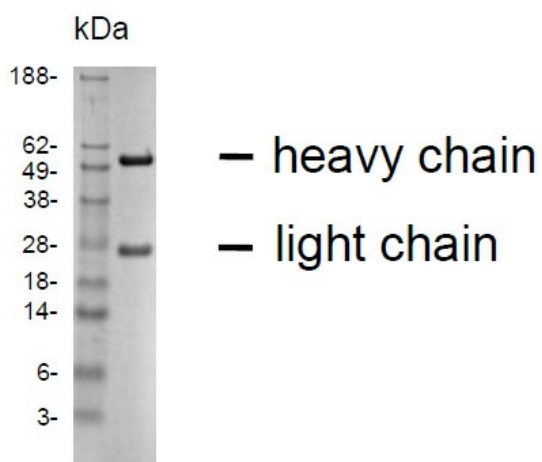


[View online »](#)

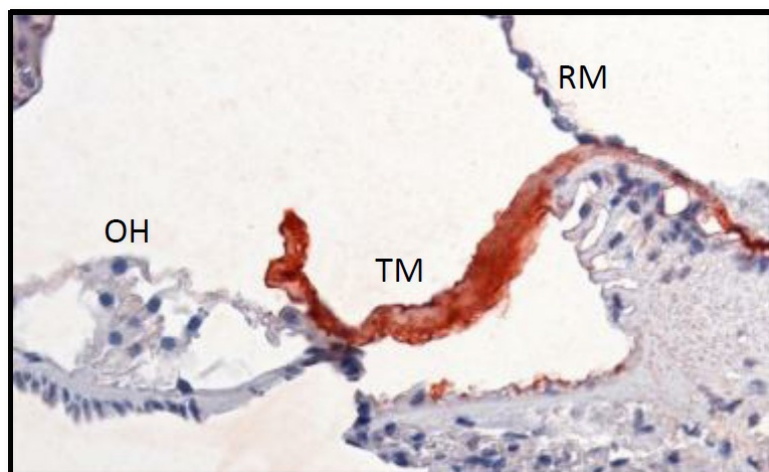
**Background:** CEA-related cell adhesion molecule 16 (CEACAM16) belongs to the carcinoembryonic antigen (CEA) gene family which are widely expressed (1). The mammal-specific member CEACAM16 is well conserved and specifically expressed in the inner ear (2). It is a structural component of the tectorial membrane and the expression is necessary for hearing over an extended frequency range (3).

**Synonyms:** CEAL2

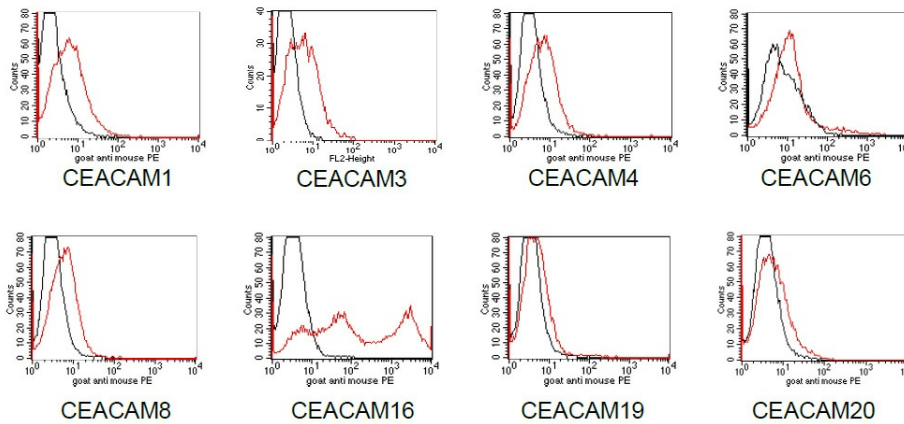
**Product images:**



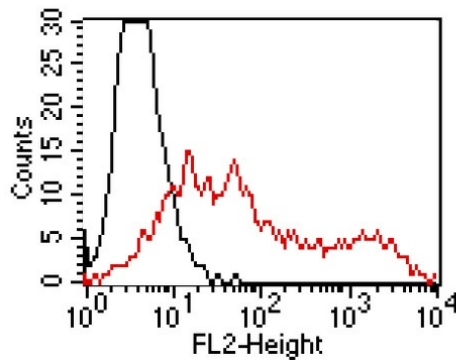
SDS-PAGE analysis of purified SU-9D5 monoclonal antibody: Lane 1: molecular weight marker, Lane 2: 2 ug of purified SU-9D5 antibody. Proteins were separated by SDS-PAGE and stained with RAPID Stain™ Reagent.



Immunohistological staining using SU-9D5 on paraffin sections of cochlea tissue of an adult transgenic mouse with a human CEACAM16 gene (Ceacam16+/+ mouse cochlea). Binding of biotinylated SU-9D5 was detected with horseradish peroxidase-coupled streptavidin and stained with 3-amino-9-ethylcarbazole.



BOSC23 cells were transiently transfected with expression vectors containing either the cDNA of CEACAM1, CEACAM3, 4, 6, 8, 19, or 20. Expression of the constructs was tested with monoclonal antibodies known to recognize the corresponding proteins (data not shown). An irrelevant monoclonal antibody served as a negative control (black curves). For specificity testing, protein G-purified SU-9D5 was tested on all CEACAM transfectants. A positive signal was obtained only with CEACAM16 transfectants (red curve).



- **CEACAM16 transfectant**  
 - control transfectant

FACS analysis of BOSC23 cells using SU-9D5. BOSC23 cells were transiently transfected with an expression vector encoding either CEACAM16 (red curve) or an irrelevant protein (control transfectant). Binding of SU-9D5 was detected with a PE- conjugated secondary antibody. A positive signal was obtained only with CEACAM16 transfectants.