



Datasheet for ABIN1381739  
**anti-CEACAM16 antibody**



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4 Images

Overview

Quantity:	100 µg
Target:	CEACAM16
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Application:	Immunohistochemistry (IHC), Flow Cytometry (FACS), Cell-ELISA (cELISA)

Product Details

Immunogen:	genetic immunisation with cDNA encoding human CEACAM16
Clone:	SU-9D5
Isotype:	IgG2b
Specificity:	Anti-human CEACAM16
Characteristics:	Selection: Based on recognition of the complete native protein expressed on transfected mammalian cells
Purification:	Protein G

Target Details

Target:	CEACAM16
Alternative Name:	CEACAM16 ( <a href="#">CEACAM16 Products</a> )
Background:	CEA-related cell adhesion molecule 16 (CEACAM16) belongs to the carcinoembryonic antigen

## Target Details

(CEA) gene family which are widely expressed. The mammal-specific member CEACAM16 is well conserved and specifically expressed in the inner ear. It is a structural component of the tectorial membrane and the expression is necessary for hearing over an extended frequency range.

UniProt: [Q2WEN9](#)

Pathways: [Sensory Perception of Sound](#)

## Application Details

Application Notes: Flow cytometry: 1.2 µg/10<sup>6</sup> cells  
CELISA: 1:200 - 1:400  
Immunohistology: 4 µg/mL  
For each application a titration should be performed to determine the optimal concentration.

Restrictions: For Research Use only

## Handling

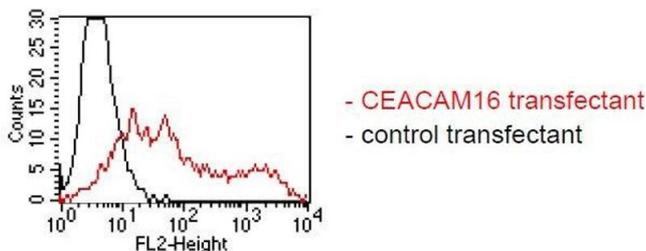
Buffer: PBS, pH 7.2

Handling Advice: Avoid repeated freezing and thawing.

Storage: 4 °C

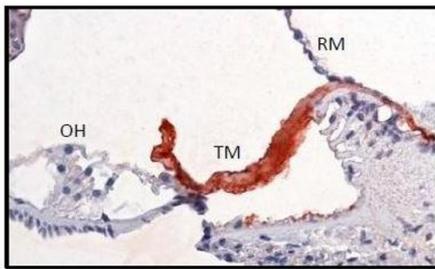
Storage Comment: short term: 2 °C - 8 °C, long term: -20 °C

## Images



### Flow Cytometry

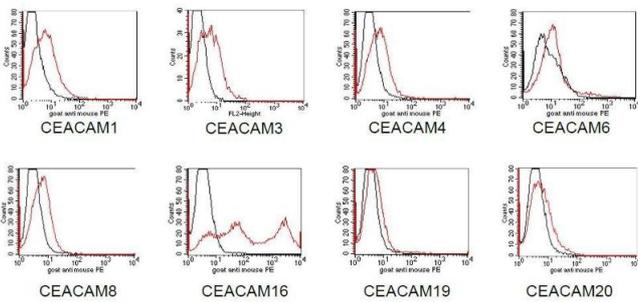
**Image 1.** FACS analysis of BOSC23 cells using SU-9D5. BOSC23 cells were transiently transfected with an expression vector encoding either CEACAM16 (red curve) or an irrelevant protein (control transfectant). Binding of SU-9D5 was detected with a PE- conjugated secondary antibody. A positive signal was obtained only with CEACAM16 transfected cells.



OH: Outer hair cells  
 TM: Tectorial membrane  
 RM: Reissner's membrane

### Immunohistochemistry

**Image 2.** 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.



### Flow Cytometry

**Image 3.** 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 transfectant cells (red curve).

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN1381739.