

For Research Use Only

# CEACAM1/CD66a Recombinant monoclonal antibody

Catalog Number:83524-8-RR



## Basic Information

<b>Catalog Number:</b> 83524-8-RR	<b>GenBank Accession Number:</b> BC014473	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 1000 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 634	<b>CloneNo.:</b> 253148F1
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P13688	<b>Recommended Dilutions:</b> WB: 1:5000-1:50000 IHC: 1:500-1:2000 IF/ICC: 1:250-1:1000
<b>Isotype:</b> IgG	<b>Full Name:</b> carcinoembryonic antigen-related cell adhesion molecule 1 (biliary glycoprotein)	
<b>Immunogen Catalog Number:</b> EG7064	<b>Calculated MW:</b> 526 aa, 58 kDa	
	<b>Observed MW:</b> 140 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, IF/ICC, ELISA	<b>Positive Controls:</b> WB : HepG2 cells, Recombinant protein, HT-29 cells IHC : human tonsil tissue, IF/ICC : HT-29 cells,
<b>Species Specificity:</b> human	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## Background Information

CEACAM1, also known as CD66a or BGP (biliary glycoprotein), is a member of the carcinoembryonic antigen (CEA) family which belongs to the immunoglobulin superfamily of cell adhesion molecules (PMID: 16919437). CEACAMs play major roles in cell-cell and cell-ECM adhesion and have been implicated in the control of cell proliferation, angiogenesis, and tissue remodeling (PMID: 23021083). CEACAM1 is a transmembrane glycoprotein that is expressed on epithelial, endothelial, and immune cells (PMID: 30314283). CEACAM1 has been demonstrated to play a role in morphogenesis, apoptosis, angiogenesis, cell proliferation, cell motility, fibrosis, and immunity (PMID: 31604530). Western blot analysis of recombinant protein confirmed that this antibody specifically recognizes CEACAM1.

## Storage

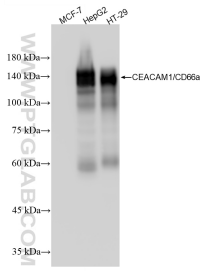
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

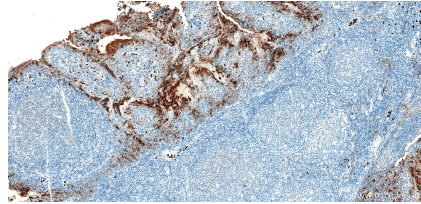
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

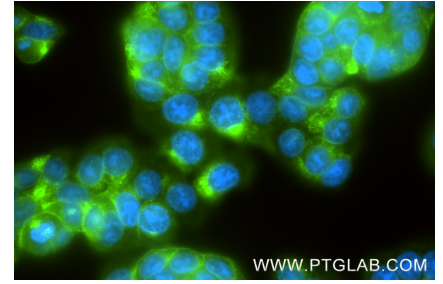
## Selected Validation Data



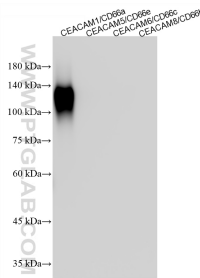
Various lysates were subjected to SDS PAGE followed by western blot with 83524-8-RR (CEACAM1/CD66a antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



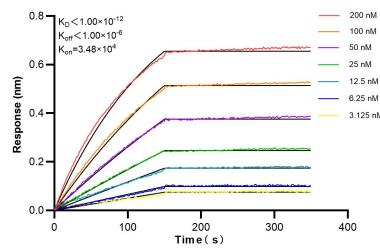
Immunohistochemical analysis of paraffin-embedded human tonsil tissue slide using 83524-8-RR (CEACAM1/CD66a antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Methanol) fixed HT-29 cells using CEACAM1/CD66a antibody (83524-8-RR, Clone: 253148F1) at dilution of 1:500 and CoraLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).



Recombinant protein were subjected to SDS PAGE followed by western blot with 83524-8-RR (CEACAM1/CD66a antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



Biolayer interferometry (BLI) kinetic assays of 83524-8-RR against Human CEACAM1/CD66a were performed. The affinity constant is below 1 pM.