For Research Use Only

## CEA/CD66e Recombinant antibody

Catalog Number:83653-5-RR



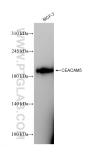
Basic Information	Catalog Number: 83653-5-RR	GenBank Accession Number: NM_004363	Purification Method: Protein A purfication	
	Size: 100ul , Concentration: 1000 ug/ml by Nanodrop; Source: Rabbit Isotype: IgG	GenelD (NCBI): 1048	CloneNo.: 240666B12	
		UNIPROT ID: P06731-1 Full Name: carcinoembryonic antigen-related cell adhesion molecule 5	Recommended Dilutions: WB 1:5000-1:50000 IHC 1:500-1:2000 IF/ICC 1:125-1:500	
				Calculated MW: 77 kDa
		Observed MW: 200 kDa		
		Applications	Tested Applications: WB, IHC, IF/ICC, ELISA Species Specificity:	Positive Controls:
	cells, human saliva 1 ovary cancer tissue,			
human Note-IHC: suggested antigen r. TE buffer pH 9.0; (*) Alternativ retrieval may be performed w buffer pH 6.0	ely, antigen			
Background Information	Carcinoembryonic antigen (CEA), also known as CEACAM5 or CD66e, is a cell surface glycoprotein belonging to the immunoglobulin superfamily, mainly serving as a cell adhesion molecule mediating intercellular contact by both homophilic and heterophilic binding (PMID: 21731662). CEA inhibits anoikis and plays a role in tumorigenesis and metastasis. CEA has been found to be overexpressed in a wide variety of human cancers, including colon, breast, and lung (PMID: 17167768). CEA is a tumor marker and is routinely exploited for diagnosis. This antibody is raised against 35-685 aa of human CEA/CD66e and can cross-react with CEACAM1/CD66a and CEACAM3/CD66d.			
Storage	Storage: Store at -20°C. Stable for one year after shipment. Storage Buffer: PBS with 0.02% sodium azide and 50% glycerol pH 7.3. 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 freeE: proteintech@ptglab.comin USA), or 1(312) 455-8498 (outside USA)W: ptglab.com

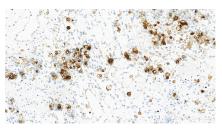
This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

## Selected Validation Data

for 1.5 hours.



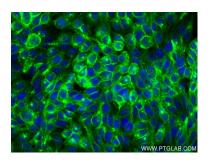
MCF-7 cells were subjected to SDS PAGE followed by western blot with 83653-5-RR (CEA antibody) at dilution of 1:10000 incubated at room temperature



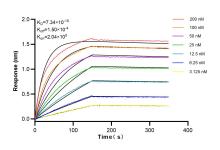
Immunohistochemical analysis of paraffinembedded human ovary cancer tissue slide using 83653-5-RR (CEA antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded human ovary cancer tissue slide using 83653-5-RR (CEA antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HT-29 cells using CEA antibody (83653-5-RR, Clone: 240666B12) at dilution of 1:250 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2).



Biolayer interferometry (BLI) kinetic assays of 83653-5-RR against Human CEA were performed. The affinity constant is 0.734 nM.