

For Research Use Only

CEACAM1/CD66a Recombinant antibody, PBS Only (Capture)

Catalog Number: 83524-3-PBS



Basic Information

Catalog Number: 83524-3-PBS	GenBank Accession Number: BC014473	Purification Method: Protein A purification
Size: 100ug, Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 634	CloneNo.: 240497B4
Source: Rabbit	UNIPROT ID: P13688	
Isotype: IgG	Full Name: carcinoembryonic antigen-related cell adhesion molecule 1 (biliary glycoprotein)	
	Calculated MW: 526 aa, 58 kDa	
	Observed MW: 135-150 kDa	

Applications

Tested Applications:
WB, IHC, Cytometric bead array, Indirect ELISA

Species Specificity:
human

Product Information

83524-3-PBS targets CEACAM1/CD66a as part of a matched antibody pair.

MP00520-2: 83524-3-PBS capture and 83524-4-PBS detection (validated in Cytometric bead array)

MP00520-3: 83524-3-PBS capture and 83524-2-PBS detection (validated in Cytometric bead array)

Unconjugated rabbit recombinant monoclonal antibody in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation. Created using Proteintech's proprietary in-house recombinant technology. Recombinant production enables unrivalled batch-to-batch consistency, easy scale-up, and future security of supply.

This conjugation ready format makes antibodies ideal for use in many applications including: ELISAs, multiplex assays requiring matched pairs, mass cytometry, and multiplex imaging applications. Antibody use should be optimized by the end user for each application and assay.

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).

Storage

Storage:
Store at -80°C.

Storage Buffer:
PBS Only

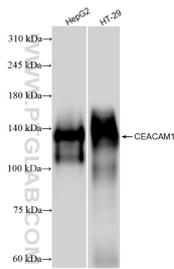
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

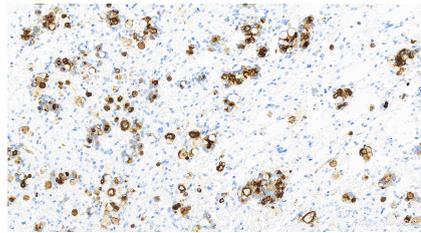
E: proteintech@ptglab.com
W: ptglab.com

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

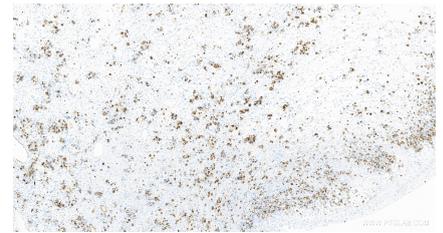
Selected Validation Data



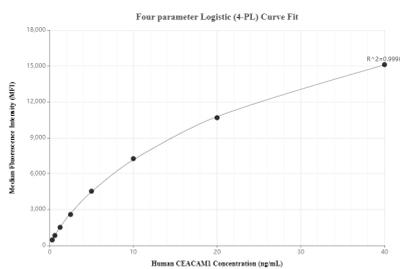
Various lysates were subjected to SDS PAGE followed by western blot with 83524-3-RR (CEACAM1/CD66a antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 83524-3-PBS in a different storage buffer formulation.



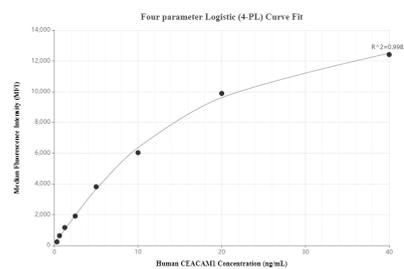
Immunohistochemical analysis of paraffin-embedded human ovary cancer tissue slide using 83524-3-RR (CEACAM1/CD66a antibody) at dilution of 1:600 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 83524-3-PBS in a different storage buffer formulation.



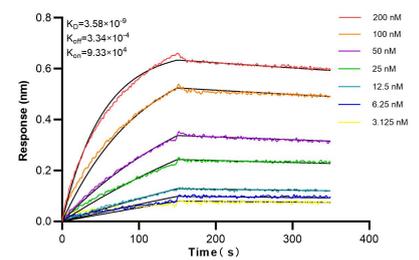
Immunohistochemical analysis of paraffin-embedded human ovary cancer tissue slide using 83524-3-RR (CEACAM1/CD66a antibody) at dilution of 1:600 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 83524-3-PBS in a different storage buffer formulation.



Cytometric bead array standard curve of MP00520-2, CEACAM-1/CD66a Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 83524-3-PBS. Detection antibody: 83524-4-PBS. Standard: Eg0314. Range: 0.313-40 ng/mL



Cytometric bead array standard curve of MP00520-3, CEACAM-1/CD66a Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 83524-3-PBS. Detection antibody: 83524-2-PBS. Standard: Eg0314. Range: 0.313-40 ng/mL



Biolayer interferometry (BLI) kinetic assays of 83524-3-RR against Human CEACAM1 were performed. The affinity constant is 3.58 nM.