

For Research Use Only

CD9 Recombinant antibody, PBS Only

Catalog Number: 84142-1-PBS



Basic Information

Catalog Number: 84142-1-PBS	GenBank Accession Number: NM_001769.4	Purification Method: Protein A purification
Size: 100ug, Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 928	CloneNo.: 240830A8
Source: Rabbit	UNIPROT ID: P21926	
Isotype: IgG	Full Name: CD9 molecule	
	Calculated MW: 25 kDa	
	Observed MW: 23 kDa	

Applications

Tested Applications:
WB, IHC, IF/ICC, ELISA

Species Specificity:
human

Background Information

The cell-surface molecule CD9, a member of the transmembrane-4 superfamily, interacts with the integrin family and other membrane proteins, and is postulated to participate in cell migration and adhesion. Expression of CD9 enhances membrane fusion between muscle cells and promotes viral infection in some cells (PMID:10459022). It is often used as a mesenchymal stem cell marker (PMID:18005405). The CD9 antigen appears to be a 227-amino acid molecule with four hydrophobic domains and one N-glycosylation site (PMID: 1840589). This antibody detects bands of 23-30 kDa, which may be due to the difference in glycosylations (PMID: 8701996).

Storage

Storage:
Store at -80°C.

Storage Buffer:
PBS Only

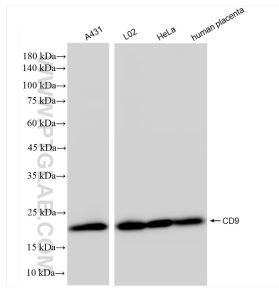
For technical support and original validation data for this product please contact:

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

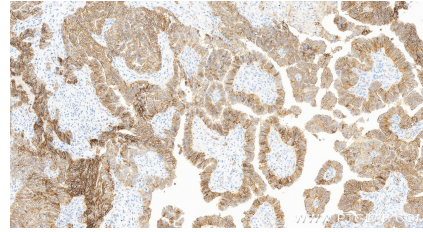
E: proteintech@ptglab.com
W: ptglab.com

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

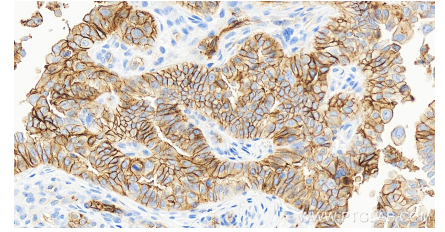
Selected Validation Data



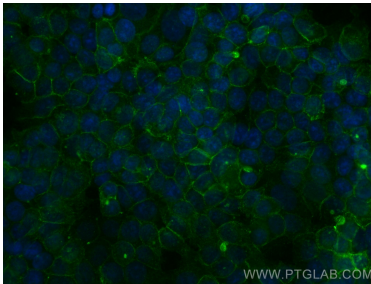
Various lysates were subjected to SDS PAGE followed by western blot with 84142-1-RR (CD9 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 84142-1-PBS in a different storage buffer formulation.



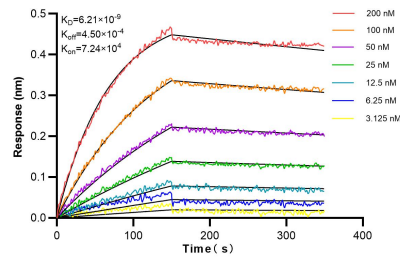
Immunohistochemical analysis of paraffin-embedded human ovary cancer tissue slide using 84142-1-RR (CD9 antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 84142-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded human ovary cancer tissue slide using 84142-1-RR (CD9 antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 84142-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (-20°C Methanol) fixed MCF-7 cells using CD9 antibody (84142-1-RR, Clone: 240830A8) at dilution of 1:500 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). This data was developed using the same antibody clone with 84142-1-PBS in a different storage buffer formulation.



Biolayer interferometry (BLI) kinetic assays of 84142-1-RR against Human CD9 were performed. The affinity constant is 6.21 nM.