

For Research Use Only

# CD9 Recombinant antibody, PBS Only

Catalog Number: 84142-1-PBS



## Basic Information

Catalog Number:

84142-1-PBS

Size:

1 mg/ml

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

NM\_001769.4

GeneID (NCBI):

928

UNIPROT ID:

P21926

Full Name:

CD9 molecule

Calculated MW:

25 kDa

Observed MW:

23 kDa

Purification Method:

Protein A purification

CloneNo.:

240830A8

## 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.

The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:

PBS Only

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

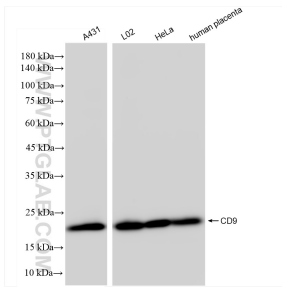
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

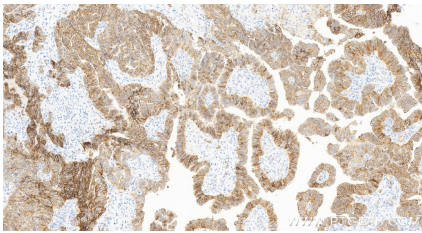
W: [ptgcn.com](http://ptgcn.com)

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

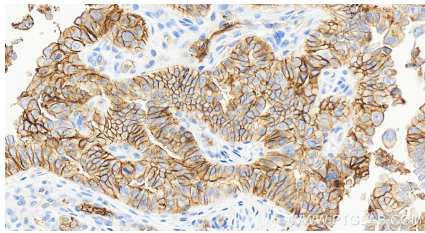
## Selected Validation Data



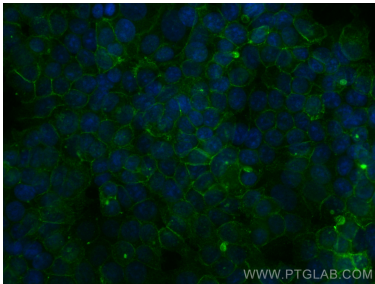
Various lysates were subjected to SDS PAGE followed by western blot with 84142-1-RR (CD9 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 84142-1-PBS in a different storage buffer formulation.



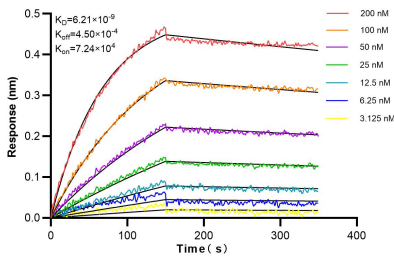
Immunohistochemical analysis of paraffin-embedded human ovary cancer tissue slide using 84142-1-RR (CD9 antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 84142-1-PBS in a different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