

For Research Use Only

# CD9 Recombinant antibody

Catalog Number: 82105-1-RR



## Basic Information

<b>Catalog Number:</b> 82105-1-RR	<b>GenBank Accession Number:</b> BC011988	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 1000 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 928	<b>CloneNo.:</b> 5K14
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P21926	<b>Recommended Dilutions:</b> WB 1:5000-1:50000 IHC 1:650-1:2600 IF/ICC 1:200-1:800
<b>Isotype:</b> IgG	<b>Full Name:</b> CD9 molecule	
<b>Immunogen Catalog Number:</b> AG14546	<b>Calculated MW:</b> 228 aa, 25 kDa	
	<b>Observed MW:</b> 23-27 kDa	

## Applications

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

**Species Specificity:**  
human

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

**Positive Controls:**

**WB :** HeLa cells, human urine exosomes tissue, L02 cells, A431 cells

**IHC :** human lung cancer tissue, human endometrial cancer tissue

**IF/ICC :** MCF-7 cells,

## Background Information

CD9, also known as Tspan-29, p24 or MIC3, is a member of the tetraspanin superfamily (PMID: 1879540). It is expressed on a large variety of hematopoietic and non-hematopoietic cells, such as stromal cells, megakaryocytes, platelets, B and T lymphocytes, dendritic cells, endothelial cells, mast cells, eosinophils, and basophils (PMID: 30356731). CD9 interacts with the integrin family and other membrane proteins, and is involved in cell adhesion, cell motility and tumor metastasis (PMID: 8478605; 21428940; 25805926). Expression of CD9 enhances membrane fusion between muscle cells and support myotube maintenance (PMID:10459022). On oocytes, CD9 is hypothesized to play a role in fertilization of mammals (PMID: 25536312).

## Storage

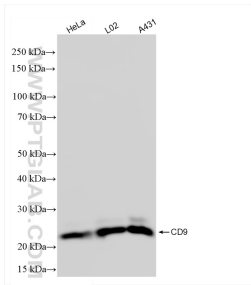
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
**Aliquoting is unnecessary for -20°C storage**

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

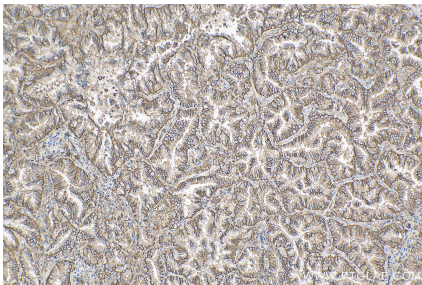
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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

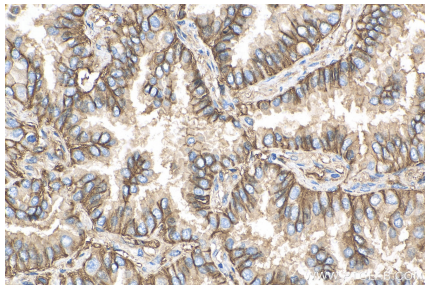
Selected Validation Data



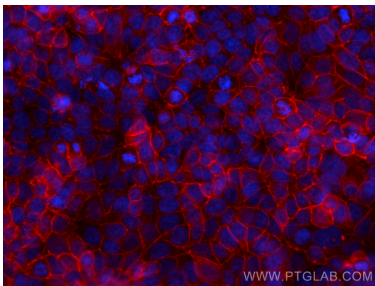
Various lysates were subjected to SDS PAGE followed by western blot with 82105-1-RR (CD9 antibody) at dilution of 1:24370 incubated at room temperature for 1.5 hours.



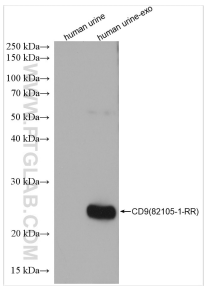
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 82105-1-RR (CD9 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



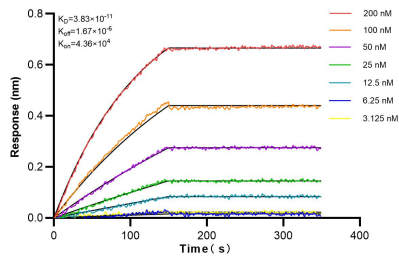
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 82105-1-RR (CD9 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Methanol) fixed MCF-7 cells using CD9 antibody (82105-1-RR, Clone: 5K14) at dilution of 1:400 and CoraLite® 594-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-4).



human urine and human urine-derived exosomes were subjected to SDS PAGE followed by western blot with 82105-1-RR (CD9 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Bilayer interferometry (BLI) kinetic assays of 82105-1-RR against Human CD9 were performed. The affinity constant is 36.3 pM.