

For Research Use Only

CD9 Recombinant antibody, PBS Only

Catalog Number: 82105-1-PBS



Basic Information

Catalog Number: 82105-1-PBS	GenBank Accession Number: BC011988	Purification Method: Protein A purification
Size: 100ug , Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 928	CloneNo.: 5K14
Source: Rabbit	UNIPROT ID: P21926	
Isotype: IgG	Full Name: CD9 molecule	
Immunogen Catalog Number: AG14546	Calculated MW: 228 aa, 25 kDa	
	Observed MW: 23-27 kDa	

Applications

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

Species Specificity:
human

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

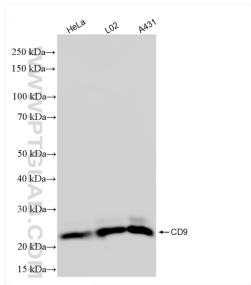
Storage:
Store at -80°C.

Storage Buffer:
PBS Only

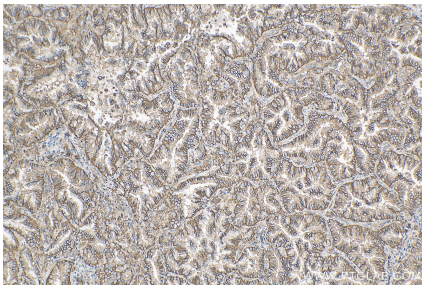
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

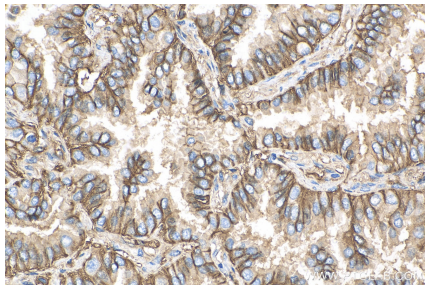
Selected Validation Data



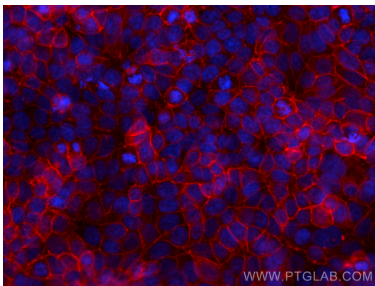
Various lysates were subjected to SDS PAGE followed by western blot with 82105-1-RR (CD9 antibody) at dilution of 1:24370 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 82105-1-PBS in a different storage buffer formulation.



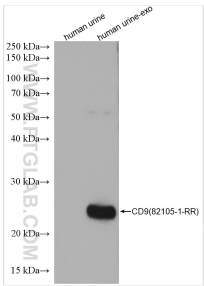
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 82105-1-RR (CD9 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 82105-1-PBS in a different storage buffer formulation.



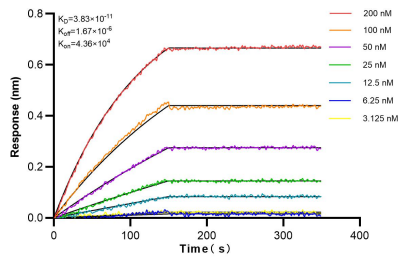
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 82105-1-RR (CD9 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 82105-1-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 82105-1-PBS in a different storage buffer formulation.



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. This data was developed using the same antibody clone with 82105-1-PBS in a different storage buffer formulation.



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