

For Research Use Only

CD9 Recombinant antibody

Catalog Number: 82105-1-RR

1 Publications



Basic Information

Catalog Number:

82105-1-RR

Concentration:

1000 ug/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG14546

GenBank Accession Number:

BC011988

GeneID (NCBI):

928

UNIPROT ID:

P21926

Full Name:

CD9 molecule

Calculated MW:

228 aa, 25 kDa

Observed MW:

23-27 kDa

Purification Method:

Protein A purification

CloneNo.:

5K14

Recommended Dilutions:

WB 1:5000-1:50000

IHC 1:650-1:2600

IF/ICC 1:200-1:800

Applications

Tested Applications:

WB, IHC, IF/ICC, ELISA

Cited Applications:

WB

Species Specificity:

human

Cited Species:

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).

Notable Publications

| Author | Pubmed ID | Journal | Application |
|----------|-----------|-------------------|-------------|
| Yuehe Xu | 39955036 | J Control Release | WB |

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

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

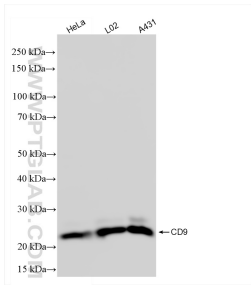
T: 4006900926

E: Proteintech-CN@ptglab.com

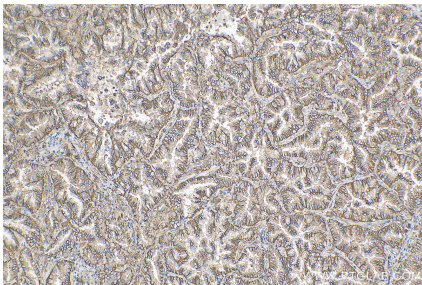
W: ptgcn.com

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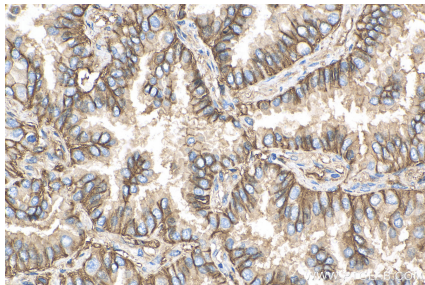
Selected Validation Data



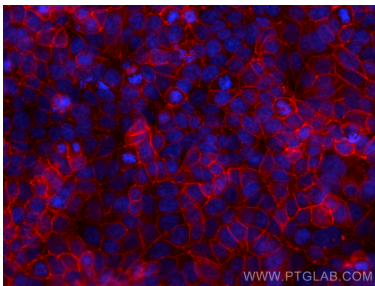
Various lysates were subjected to SDS PAGE followed by western blot with 82105-1-RR (CD9 antibody) at dilution of 1:24370 incubated at room temperature for 1.5 hours.



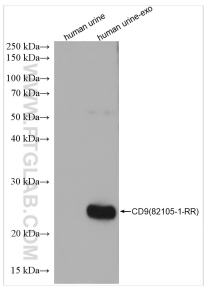
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 82105-1-RR (CD9 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



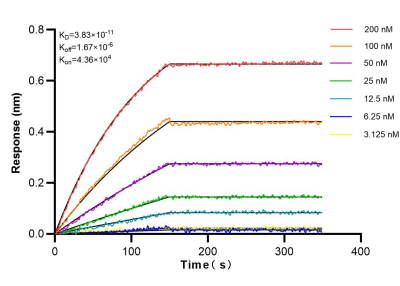
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 82105-1-RR (CD9 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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.