For Research Use Only

CD9 Polyclonal antibody

Catalog Number:20597-1-AP Featured Product 225 Publications

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Basic Information

Catalog Number:
20597-1-AP

Size:
150ul , Concentration: 600 μg/ml by Nanodrop;

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:
23-30 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:1000-1:6000
IHC 1:1000-1:4000
IF 1:50-1:500

Applications

Tested Applications:
WB, IF, FC, IHC, ELISA

Cited Applications:
WB, FC, IHC

Species Specificity:
human, mouse, rat

Cited Species:
human, chicken, rat, mouse, monkey, pig, Bat

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 : HepG2 cells, mouse placenta tissue, RAW 264.7 cells, HeLa cells, L02 cells, human placenta tissue, mouse liver tissue, rat liver tissue, THP-1 cells

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

IF : MCF-7 cells,

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, it may be due to the difference of glycosylations (PMID: 8701996).

Notable Publications

Author	Pubmed ID	Journal	Application
Xiaoyin Liu	36246376	Front Bioeng Biotechnol	WB
Ning Wang	34696392	Viruses	WB
Xinyan Zhou	36171212	Nat Commun	WB

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
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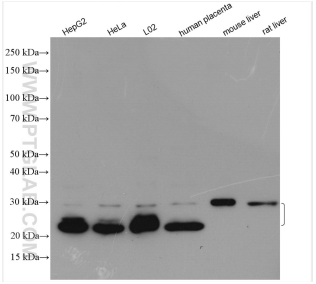
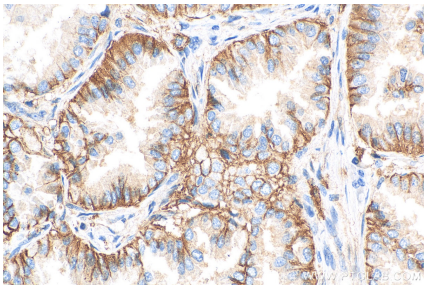
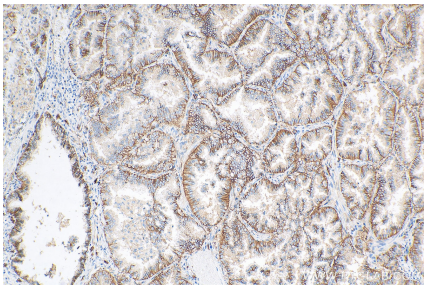
Selected Validation Data



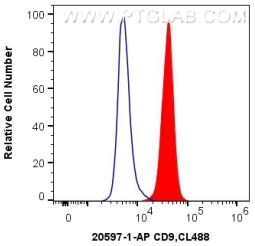
Various lysates were subjected to SDS PAGE followed by western blot with 20597-1-AP (CD9 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



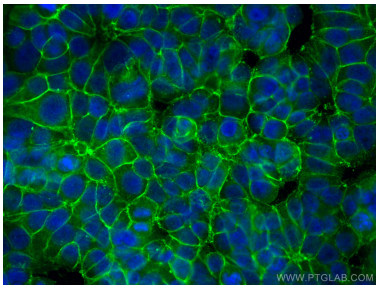
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 20597-1-AP (CD9 antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 20597-1-AP (CD9 antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1X10^6 HeLa cells were intracellularly stained with 0.4 ug Anti-Human CD9 (20597-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Immunofluorescent analysis of (-20°C Methanol) fixed MCF-7 cells using CD9 antibody (20597-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).