For Research Use Only

CD9 Monoclonal antibody

Catalog Number:60232-1-Ig Featured Product 115 Publications

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Basic Information

Catalog Number:
60232-1-Ig

Concentration:
1500 ug/ml

Source:
Mouse

Isotype:
IgG1

Immunogen Catalog Number:
AG14529

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 G purification

CloneNo.:
4H7B9

Recommended Dilutions:
WB 1:5000-1:50000
IHC 1:1000-1:4000
IF-P 1:200-1:800
IF/ICC 1:400-1:1600

Applications

Tested Applications:
WB, IHC, IF/ICC, IF-P, ELISA

Cited Applications:
WB, IHC, IF, PLA

Species Specificity:
human

Cited Species:
human, rabbit

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 : A431 cells, HeLa cells

IHC : human ovary tumor tissue, human breast cancer tissue, human colon cancer tissue, human tonsillitis tissue

IF-P : human breast cancer tissue, human ovary tumor tissue, human lung cancer tissue

IF/ICC : 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). CD9 is also known as the p24 antigen besides MIC3, TSPAN29 because it is a protein of molecular weight 24 kD. The CD9 antigen appears to be a 227-amino acid molecule with 4 hydrophobic domains and 1 N-glycosylation site.

Notable Publications

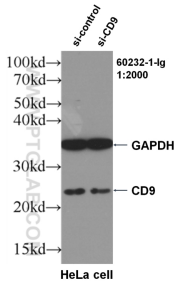
Author	Pubmed ID	Journal	Application
Kosuke Otani	31561474	Int J Mol Sci	WB
Na-Na Sun	34483252	Chin Med J (Engl)	WB
Zhi-Hong Zong	31666098	J Exp Clin Cancer Res	WB

Storage

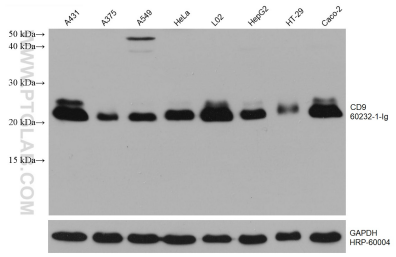
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

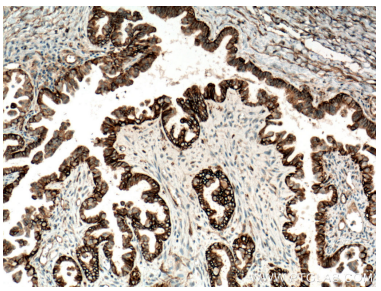
Selected Validation Data



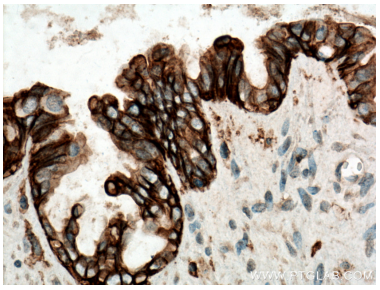
WB result of CD9 antibody (60232-1-Ig, 1:2000) with si-Control and si-CD9 transfected HeLa cells.



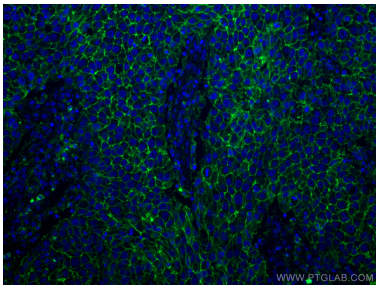
Various lysates were subjected to SDS PAGE followed by western blot with 60232-1-Ig (CD9 antibody) at dilution of 1:15000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated GAPDH Monoclonal antibody (HRP-60004) as loading control.



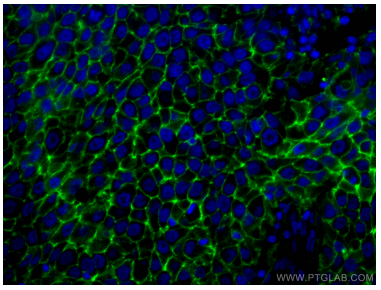
Immunohistochemical analysis of paraffin-embedded human ovary tumor tissue slide using 60232-1-Ig (CD9 antibody) at dilution of 1:2000 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human ovary tumor tissue slide using 60232-1-Ig (CD9 antibody) at dilution of 1:2000 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed human breast cancer tissue using CD9 antibody (60232-1-Ig, Clone: 4H7B9) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



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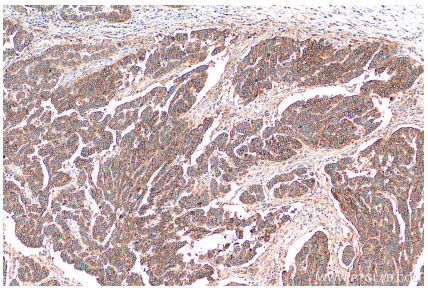
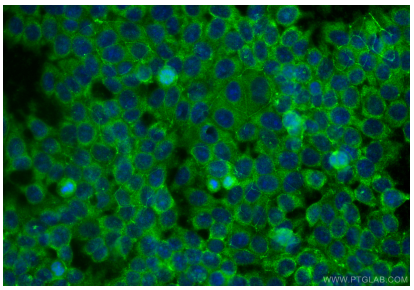


Immunohistochemical analysis of paraffin-embedded human ovary tumor tissue slide using 60232-1-Ig (CD9 antibody) at dilution of 1:4000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Methanol) fixed MCF-7 cells using CD9 antibody (60232-1-Ig, Clone: 4H7B9) at dilution of 1:800 and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L) (SA00013-1).