For Research Use Only

ECM1 Polyclonal antibody

Catalog Number:11521-1-AP 28 Publications

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Basic Information

Catalog Number:
11521-1-AP

Concentration:
600 μg/ml

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG2084

GenBank Accession Number:
BC023505

GeneID (NCBI):
1893

UNIPROT ID:
Q16610

Full Name:
extracellular matrix protein 1

Calculated MW:
540 aa, 61 kDa

Observed MW:
55-61 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:500-1:2000
IHC 1:100-1:400
IF/ICC 1:50-1:500

Applications

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

Cited Applications:
WB, IHC, IF, IP

Species Specificity:
human, mouse, rat

Cited Species:
human, mouse, canine

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 : A549 cells, L02 cells, HepG2 cells, mouse liver tissue, mouse kidney tissue, MCF-7 cells, mouse pancreas tissue, rat pancreas tissue, A375 cells

IHC : human thyroid cancer tissue, human breast cancer tissue, human lung cancer tissue, human pancreas cancer tissue

IF/ICC : HepG2 cells,

Background Information

Extracellular matrix protein 1 (ECM1) is a glycoprotein involved in a number of biological processes such as bone formation, skin differentiation, cell proliferation, and promotes angiostasis.ECM1 is expressed in breast cancer and could participate in cell migration and angiogenesis. Pathologically, ECM1 contributes to the formation and metastasis of several types of cancer including breast, thyroid and hepatocellular cancers.(PMID:21128013) It inhibits MMP9 proteolytic activity. ECM1 protein is a possible trigger for angiogenesis, tumor progression and malignancies(PMID:21497598).

Notable Publications

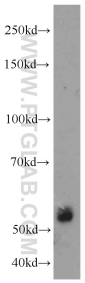
Author	Pubmed ID	Journal	Application
L Gan	29059156	Oncogene	IF
Jie Yang	34816866	Mol Omics	WB
Gregory Mazo	27818179	Dev Cell	

Storage

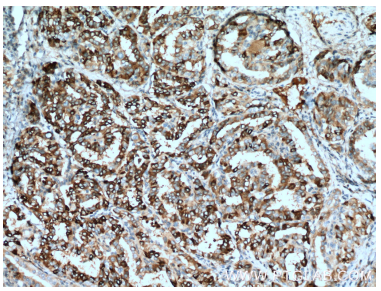
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

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

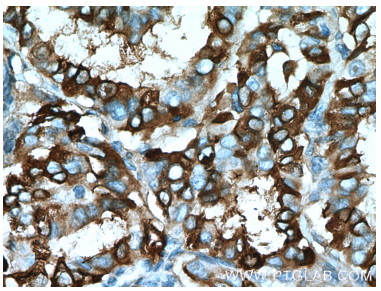
Selected Validation Data



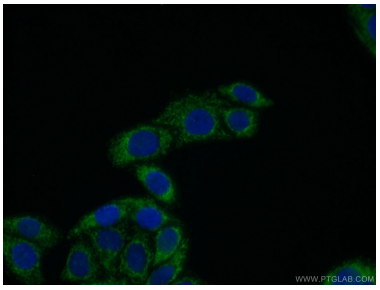
A549 cells were subjected to SDS PAGE followed by western blot with 11521-1-AP (ECM1 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human thyroid cancer tissue slide using 11521-1-AP (ECM1 Antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human thyroid cancer tissue slide using 11521-1-AP (ECM1 Antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (10% Formaldehyde) fixed HepG2 cells using 11521-1-AP (ECM1 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated Goat Anti-Rabbit IgG(H+L).

Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using ECM1 antibody (11521-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L).