

For Research Use Only

# ECM1 Polyclonal antibody

Catalog Number: 11521-1-AP

28 Publications



## Basic Information

|   |   |  |
|---|---|--|
| <b>Catalog Number:</b><br>11521-1-AP                          | <b>GenBank Accession Number:</b><br>BC023505        | <b>Purification Method:</b><br>Antigen affinity purification |
| <b>Size:</b><br>150ul , Concentration: 600 ug/ml by Nanodrop; | <b>GeneID (NCBI):</b><br>1893                       | <b>Recommended Dilutions:</b><br>WB 1:500-1:2000             |
| <b>Source:</b><br>Rabbit                                      | <b>UNIPROT ID:</b><br>Q16610                        | IHC 1:100-1:400  |
| <b>Isotype:</b><br>IgG  | <b>Full Name:</b><br>extracellular matrix protein 1 | IF/ICC 1:50-1:500  |
| <b>Immunogen Catalog Number:</b><br>AG2084                    | <b>Calculated MW:</b><br>540 aa, 61 kDa             |  |
|   | <b>Observed MW:</b><br>55-61 kDa                    |  |

## 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, LO2 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

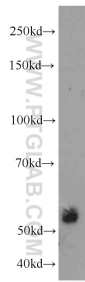
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
**Aliquoting is unnecessary for -20°C storage**

\*\*\* 20ul sizes contain 0.1% BSA

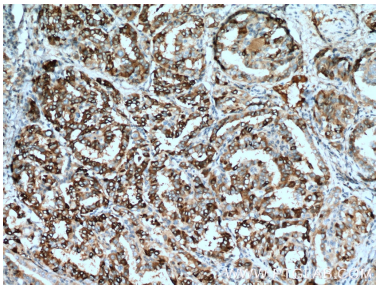
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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

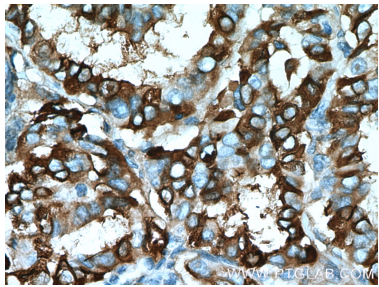
Selected Validation Data



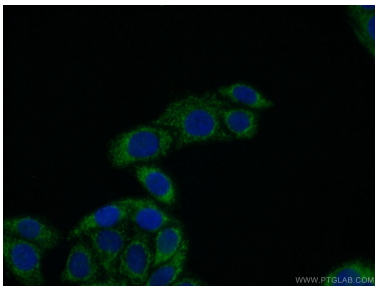
A549 cells were subjected to SDS PAGE followed by western blot with 11521-1-AP (ECM1 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



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).