

For Research Use Only

EMILIN1 Monoclonal antibody

Catalog Number: 60047-1-Ig **2 Publications**



Basic Information

| | | |
|---|--|---|
| Catalog Number: 60047-1-Ig | GenBank Accession Number: BC007530 | Purification Method: Protein G purification |
| Size: 150ul, Concentration: 1300 µg/ml by Nanodrop and 1000 µg/ml by Bradford method using BSA as the standard; | GeneID (NCBI): 11117 | CloneNo.: 2A5C8 |
| Source: Mouse | Full Name: elastin microfibril interfacier 1 | Recommended Dilutions: WB 1:2000-1:10000 IHC 1:1000-1:4000 IF 1:200-1:800 |
| Isotype: IgG1 | Calculated MW: 107 kDa | |
| Immunogen Catalog Number: AG1016 | Observed MW: 120-130 kDa | |

Applications

Tested Applications:

IF, IHC, WB, ELISA

Cited Applications:

IF, IHC

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: human colon tissue, human rectum tissue

IHC: human ovary tumor tissue, human lung cancer tissue, human kidney tissue, human colon tissue

IF: human ovary tumor tissue,

Background Information

EMILIN1, also named as EMILIN, EMILIN-1, gp115 and EMI, may be responsible for anchoring smooth muscle cells to elastic fibers, and may be involved not only in the formation of the elastic fiber, but also in the processes that regulate vessel assembly. It has cell adhesive capacity. EMILIN1 is a negative regulator of the transforming growth factor-beta (TGF-beta) signaling, which is involved in blood pressure (BP) homeostasis (PMID:20186130). EMILIN1 may play a key role in hypertensive vascular remodeling. TGFβ proteins are the main regulators of blood vessel development and maintenance, and EMILIN1 inhibits TGFβ signaling by binding specifically to the proTGFβ precursor and preventing its maturation by furin convertases in the extracellular space (PMID:19922630).

Notable Publications

| Author | Pubmed ID | Journal | Application |
|-----------------|-----------|--------------------|-------------|
| Nakatomi Yuka Y | 20701466 | Connect Tissue Res | IF |
| Fachinelli A A | 21400085 | Hernia | IHC |

Storage

Storage:

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

Storage Buffer:

PBS with 0.1% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

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

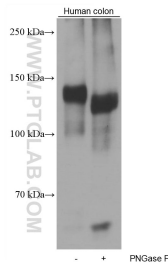
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

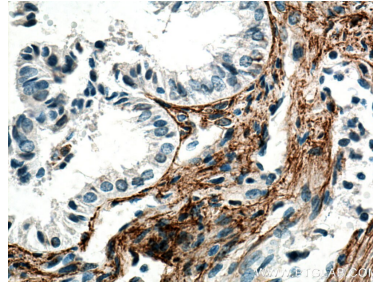
E: proteintech@ptglab.com
W: ptglab.com

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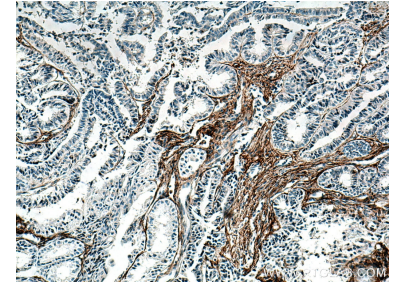
Selected Validation Data



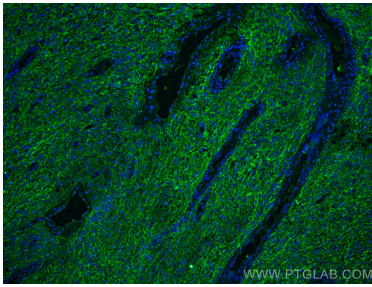
Untreated and PNGase F-treated lysates of human colon tissue were subjected to SDS PAGE followed by western blot with 60047-1-Ig (EMILIN1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. PNGase F was obtained from Atagenix (cat.NO. ata808).



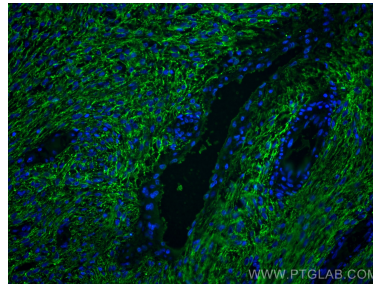
Immunohistochemical analysis of paraffin-embedded human ovary tumor tissue slide using 60047-1-Ig (EMILIN1 antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human ovary tumor tissue slide using 60047-1-Ig (EMILIN1 antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed human ovary tumor tissue using EMILIN1 antibody (60047-1-Ig, Clone: 2A5C8) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed human ovary tumor tissue using EMILIN1 antibody (60047-1-Ig, Clone: 2A5C8) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).