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EMILIN1 Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP6640a

Product Information

Application	WB, IHC-P, FC, E
Primary Accession	Q9Y6C2
Reactivity	Human
Predicted	Mouse, Rat, Bovine, Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB18213
Calculated MW	106695
Antigen Region	84-112

Additional Information

Gene ID	11117
Other Names	EMILIN-1, Elastin microfibril interface-located protein 1, Elastin microfibril interfacer 1, EMILIN1, EMI
Target/Specificity	This EMILIN1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 84-112 amino acids from the N-terminal region of human EMILIN1.
Dilution	WB~~1:1000 IHC-P~~1:100~500 FC~~1:10~50 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	EMILIN1 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	EMILIN1
Synonyms	EMI

Function	Involved in elastic and collagen fibers formation. It is required for EFEMP2 deposition into the extracellular matrix, and collagen network assembly and cross-linking via protein-lysine 6- oxidase/LOX activity (PubMed:36351433). May be responsible for anchoring smooth muscle cells to elastic fibers, and may be involved in the processes that regulate vessel assembly. Has cell adhesive capacity.
Cellular Location	Secreted, extracellular space, extracellular matrix Note=Found mainly at the interface between amorphous elastin and microfibrils.
Tissue Location	Distributed in tissues where resilience and elastic recoil are prominent. Highest levels in the adult small intestine, aorta, lung, uterus, and appendix and in the fetal spleen, kidney, lung, and heart; intermediate expression was detected in adult liver, ovary, colon, stomach, lymph node and spleen; adult heart, bladder, prostate, adrenal gland, mammary gland, placenta and kidney showed low expression whereas a series of other adult tissues, including skeletal muscle and different regions of adult brain show no expression Detected in intramuscular nerve bundles, where it particularly localizes in the epineurium, the most external layer of dense connective tissue enclosing the nerve (PubMed:31978608)

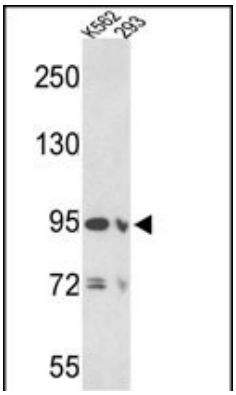
Background

EMILIN1 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.

References

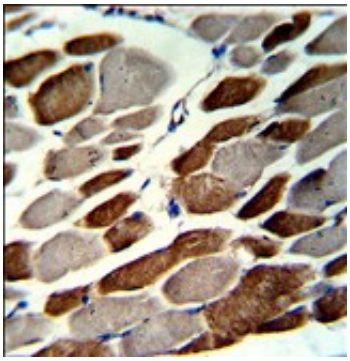
Verdone,G., J. Biol. Chem. 283 (27), 18947-18956 (2008)
Danussi,C., Mol. Cell. Biol. 28 (12), 4026-4039 (2008)

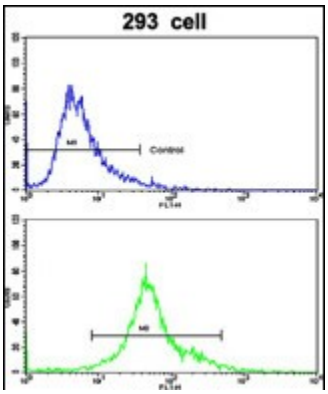
Images



Western blot analysis of EMILIN1 Antibody (N-term) (Cat. #AP6640a) in K562 and 293 cell line lysates (35ug/lane). EMILIN1 (arrow) was detected using the purified Pab.

Formalin-fixed and paraffin-embedded human skeletal muscle with EMILIN1 Antibody (N-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.





Flow cytometric analysis of 293 cells using EMILIN1 Antibody (N-term)(bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.