10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

EMILIN1 Rabbit pAb

Catalog # AP98845

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q9Y6C2
Other Accession	Q9Y6C2
Predicted	Rat, Pig, Human, Mouse, Dog, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	106695
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human EMILIN1
Epitope Specificity	351-450/1016
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Contains 1 C1q domain. Contains 1 collagen-like domain. Contains 1 EMI domain.
SUBUNIT	Homotrimer associated through a moderately stable interaction of the C-terminal globular C1q domains, allowing the nucleation of the triple helix and then a further quaternary assembly to higher-order polymers via intermolecular disulfide bonds. Interacts with EMILIN2.
DISEASE	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.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	This gene encodes an extracellular matrix glycoprotein that is characterized by an N-terminal microfibril interface domain, a coiled-coiled alpha-helical domain, a collagenous domain and a C-terminal globular C1q domain. The encoded protein associates with elastic fibers at the interface between elastin and microfibrils and may play a role in the development of elastic tissues including large blood vessels, dermis, heart and lung. [provided by RefSeq, Sep 2009]

Additional Information

Gene ID	11117
Other Names	EMIL1_HUMAN; EMILIN1; Elastin microfibril interface-located protein 1 (Elastin microfibril interfacer 1); EMI; elastin microfibril interfacer 1

Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

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)

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