

Matrilin 1 Rabbit pAb

Catalog # AP96965

Product Information

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	P21941
Other Accession	P21941
Predicted	Rat, Human, Mouse, Rabbit, Dog, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	53701
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human Matrilin 1
Epitope Specificity	301-400/496
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 EGF-like domain.Contains 2 VWFA domains.
SUBUNIT	Homotrimer. Interacts with COMP.
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 a member of von Willebrand factor A domain containing protein family. This family of proteins are thought to be involved in the formation of filamentous networks in the extracellular matrices of various tissues. Mutations of this gene have been associated with variety of inherited chondrodysplasias. [provided by RefSeq]

Additional Information

Gene ID	4146
Other Names	CMP; CRTM; Mat1; matrilin-1; MATN1_HUMAN; MATN1; Cartilage matrix protein; MATN1_MOUSE; matrilin 1; matrilin 1, cartilage matrix protein
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,ELISA=1:5000-10000
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	MATN1 (HGNC:6907)
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Function	A major component of the extracellular matrix of non- articular cartilage (By similarity). Binds to type 2 collagens and forms long concatenated protein networks as part of the extracellular matrix (By similarity). Required for the network-like organization and bundling of collagen fibrils surrounding chondrocytes in the zones of maturation and hypertrophy (By similarity). Required for mechanotransduction and adaption to mechanical loading in cartilage chondrocytes, resulting in an increase in expression of the extracellular matrix components ACAN and COL2A1 (By similarity). Acts as a moderator of angiogenesis in response to injury (By similarity).
Cellular Location	Secreted, extracellular space, extracellular matrix {ECO:0000250 UniProtKB:P05099}

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