

# MATN1 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP12822b

## Product Information

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|-------------------|---------------------------------------------|
| Application       | WB, IHC-P, E                                |
| Primary Accession | <a href="#">P21941</a>                      |
| Other Accession   | <a href="#">NP_002370.1</a>                 |
| Reactivity        | Human                                       |
| Predicted         | Mouse, Rat, Bovine, Canine, Rabbit, Chicken |
| Host              | Rabbit                                      |
| Clonality         | Polyclonal                                  |
| Isotype           | Rabbit IgG                                  |
| Clone Names       | RB32495                                     |
| Calculated MW     | 53701                                       |
| Antigen Region    | 376-405                                     |

## Additional Information

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|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Gene ID            | 4146                                                                                                                                                                         |
| Other Names        | Cartilage matrix protein, Matrilin-1, MATN1, CMP, CRTM                                                                                                                       |
| Target/Specificity | This MATN1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 376-405 amino acids from the C-terminal region of human MATN1.       |
| Dilution           | WB~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.                                                                                                      |
| Format             | Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification. |
| 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        | MATN1 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.                                                                    |

## Protein Information

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| Name     | MATN1 ( <a href="#">HGNC:6907</a> )                                                                                                                                                                                                     |
| 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}

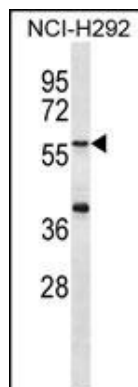
## Background

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.

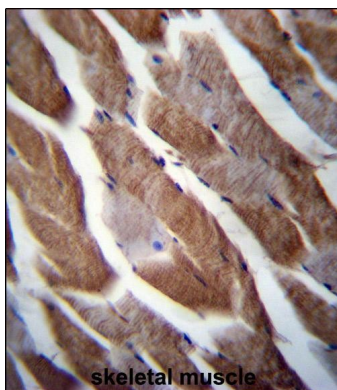
## References

Jang, J.Y., et al. J. Dent. Res. 89(11):1203-1207(2010)  
Fresquet, M., et al. J. Biol. Chem. 285(44):34048-34061(2010)  
Wheeler, H.E., et al. PLoS Genet. 5 (10), E1000685 (2009) :  
Chen, Z.J., et al. Zhonghua Wai Ke Za Zhi 47(17):1332-1335(2009)  
Caporaso, N., et al. PLoS ONE 4 (2), E4653 (2009) :

## Images



MATN1 Antibody (C-term) (Cat. #AP12822b) western blot analysis in NCI-H292 cell line lysates (35ug/lane). This demonstrates the MATN1 antibody detected the MATN1 protein (arrow).



MATN1 Antibody (C-term) (Cat. #AP12822b) immunohistochemistry analysis in formalin fixed and paraffin embedded human skeletal muscle followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of MATN1 Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.

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