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MATN1 Antibody
Catalog # ASC10892

Specification

MATN1 Antibody - Product Information

Application	**WB**
Primary Accession	P21941
Other Accession	NP_002370, 4505111
Reactivity	**Human, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**IgG**
Application Notes	**MATN1 antibody can be used for detection of MATN1 by Western blot at 1 - 2 µg/mL.**

MATN1 Antibody - Additional Information

Gene ID **4146**

Target/Specificity
MATN1;

Reconstitution & Storage
MATN1 antibody can be stored at 4℃ for three months and -20℃, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

Precautions
MATN1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

MATN1 Antibody - Protein Information

Name MATN1

Synonyms CMP, CRTM

Function
Cartilage matrix protein is a major component of the extracellular matrix of non-articular cartilage. It binds to collagen.

Cellular Location
Secreted, extracellular space, extracellular matrix

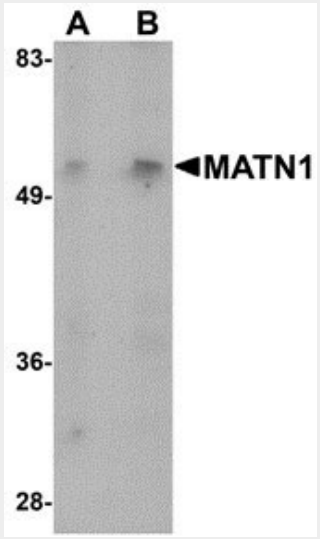
MATN1 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

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- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

MATN1 Antibody - Images



Western blot analysis of MATN1 in mouse liver tissue lysate with MATN1 antibody at (A) 1 and (B) 2 µg/mL.

MATN1 Antibody - Background

MATN1 Antibody: Matrilins (MATNs) are a family of non-collagenous extra-cellular matrix (ECM) proteins consisting of four known members that have been proposed to play key roles in modulating cellular phenotypes during chondrogenesis of mesenchymal stem cells (MSCs). MATN1 and MATN3 are expressed specifically in cartilage and are among the most up-regulated ECM proteins during chondrogenesis. MATN1 is composed of two Willebrand Factor A (vWFA) domains separated by one EGF-like domain, whereas MATN3 is composed of a single N-terminal vWFA domain followed by four epidermal growth factor (EGF) repeats and a coiled-coil domain. MATN1 or MATN3 may play a role in modulating chondrogenesis during the chondrocyte differentiation process. Mutations of this gene have been associated with variety of inherited chondrodysplasias. Recent studies show that the MATN1 promoter region was associated with both susceptibility and disease progression in Adolescent idiopathic scoliosis.

MATN1 Antibody - References

Pei M, Luo J, and Chen Q. Enhancing and maintaining matrilins. Osteoarthritis Cartilage2008; 16:1110-7.
Frank S, Schulthess T, Landwehr R, et al. Characterization of the matrilin coiled-coil domains reveals seven novel isoforms. J. Biol. Chem.2002; 277:19071-9.
Chen Q, Johnson DM, Haudenschild DR, et al. Progression and recapitulation of the chondrocyte differentiation program: cartilage matrix protein is a marker for cartilage maturation. Dev. Biol.1995; 172:293-306.
Stokes DG, Liu G, Coimbra IB, et al. Assessment of the gene expression profile of differentiated and

dedifferentiated human fetal chondrocytes by microarray analysis. Arthritis Rheum2002; 46:404-19.