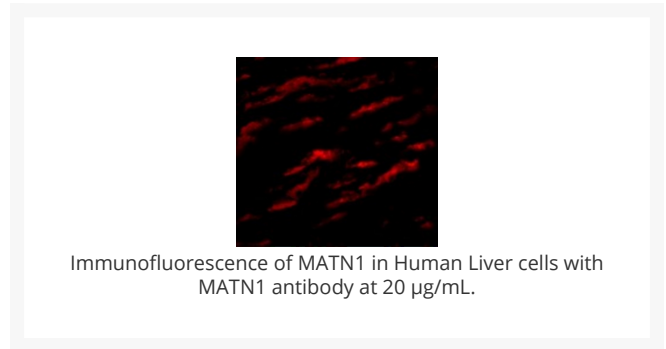
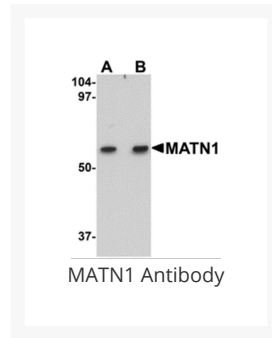




MATN1 Antibody

Cat. No.: 5125



Ψ Specifications

HOST SPECIES:	Rabbit
SPECIES REACTIVITY:	Human, Mouse, Rat
HOMOLOGY:	Predicted species reactivity based on immunogen sequence: Chicken: (92%)
IMMUNOGEN:	MATN1 antibody was raised against a 13 amino acid synthetic peptide from near the carboxy terminus of human MATN1. The immunogen is located within amino acids 370 - 420 of MATN1.
TESTED APPLICATIONS:	ELISA, IF, IHC-P, WB

APPLICATIONS:	MATN1 antibody can be used for detection of MATN1 by Western blot at 1 - 2 µg/mL. Antibody can also be used for immunohistochemistry starting at 5 µg/mL. For immunofluorescence start at 20 µg/mL. Antibody validated: Western Blot in rat samples; Immunohistochemistry in human samples and Immunofluorescence in human samples. All other applications and species not yet tested.
POSITIVE CONTROL:	1) Cat. No. 1464 - Rat Liver Tissue Lysate
	2) Cat. No. 10-201 - Human Liver Tissue Slide

Ψ Properties

PURIFICATION:	MATN1 Antibody is affinity chromatography purified via peptide column.
CLONALITY:	Polyclonal
ISOTYPE:	IgG
CONJUGATE:	Unconjugated
PHYSICAL STATE:	Liquid
BUFFER:	MATN1 Antibody is supplied in PBS containing 0.02% sodium azide.
CONCENTRATION:	1 mg/mL
STORAGE CONDITIONS:	MATN1 antibody can be stored at 4 °C for three months and -20 °C, 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.

Ψ Additional Info

OFFICIAL SYMBOL:	MATN1
ALTERNATE NAMES:	MATN1 Antibody: CMP, CRTM, CMP, Cartilage matrix protein, Matrilin-1
ACCESSION NO.:	NP_002370
PROTEIN GI NO.:	4505111
GENE ID:	4146
USER NOTE:	Optimal dilutions for each application to be determined by the researcher.

Ψ Background and References

BACKGROUND:	<p>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.</p>
REFERENCES:	<p>1) Pei M, Luo J, and Chen Q. Enhancing and maintaining matrilins. Osteoarthritis Cartilage 2008; 16:1110-7.</p>
	<p>2) 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.</p>
	<p>3) 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.</p>
	<p>4) 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 Rheum 2002; 46:404-19.</p>

ANTIBODIES FOR RESEARCH USE ONLY.

For additional information, visit ProSci's [Terms & Conditions Page](#).