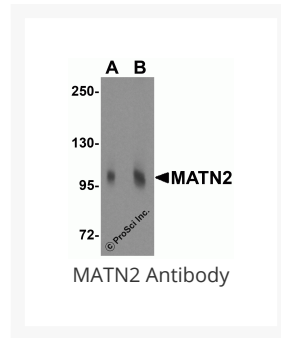




MATN2 Antibody

Cat. No.: 5105



Ψ Specifications

HOST SPECIES:	Rabbit
SPECIES REACTIVITY:	Human, Mouse, Rat
IMMUNOGEN:	MATN2 antibody was raised against a 15 amino acid synthetic peptide from near the carboxy terminus of human MATN2. The immunogen is located within amino acids 820 - 870 of MATN2.
TESTED APPLICATIONS:	ELISA, WB
APPLICATIONS:	MATN2 antibody can be used for detection of MATN2 by Western blot at 1 - 2 µg/mL. Antibody validated: Western Blot in mouse samples. All other applications and species not yet tested.
POSITIVE CONTROL:	1) Cat. No. 1282 - 3T3 (NIH) Cell Lysate
PREDICTED MOLECULAR WEIGHT:	Predicted: 102 kDa Observed: 105 kDa

Ψ Properties

PURIFICATION:	MATN2 Antibody is affinity chromatography purified via peptide column.
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CLONALITY:	Polyclonal
ISOTYPE:	IgG
CONJUGATE:	Unconjugated
PHYSICAL STATE:	Liquid
BUFFER:	MATN2 Antibody is supplied in PBS containing 0.02% sodium azide.
CONCENTRATION:	1 mg/mL
STORAGE CONDITIONS:	MATN2 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.

Additional Info

OFFICIAL SYMBOL:	MATN2
ALTERNATE NAMES:	MATN2 Antibody: Matrilin-2
ACCESSION NO.:	NP_085072
PROTEIN GI NO.:	62548862
GENE ID:	4147
USER NOTE:	Optimal dilutions for each application to be determined by the researcher.

Background and References

BACKGROUND:	MATN2 Antibody: Matrilin (MATNs) are a family of non-collagenous extracellular matrix proteins consisting of four known members that have been proposed to play key roles in the formation of both collagen-dependent and collagen-independent filamentous networks. The matrilin family all share a structure made up of von Willebrand factor A domains, epidermal growth factor-like domains and a coiled coil alpha-helical module. MATN1 and MATN3 are expressed mainly in cartilage, while MATN2 and MATN4 occur in a wide variety of extracellular matrices. The matrilin genes are strictly and differently regulated and their expression may serve as markers for cellular differentiation and diseases such as astrocytoma and liver carcinoma. Recent studies show that MATN2 is a permissive substrate for axonal growth and cell migration, and it is required for successful nerve regeneration.
REFERENCES:	1) Pei M, Luo J, and Chen Q. Enhancing and maintaining chondrogenesis of synovial fibroblasts by cartilage extracellular matrix protein matrilins. <i>Osteoarthritis Cartilage</i> 2008; 16:1110-7. 2) Frank S, Schulthess T, Landwehr R, et al. Characterization of the Matrilin Coiled-coil Domains Reveals Seven Novel Isoforms. <i>J. Biol. Chem.</i> 2002; 277:19071-9. 3) Deak F, Wagener R, Kiss I, et al. The matrilins: a novel family of oligomeric extracellular matrix proteins. <i>Matrix Biol.</i> 1999; 18:55-64. 4) Szabo E, Korpos E, Batmunkh E, et al. Expression of matrilin-2 in liver cirrhosis and hepatocellular carcinoma. <i>Pathol. Oncol. Res.</i> 2008; 14:15-22.

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