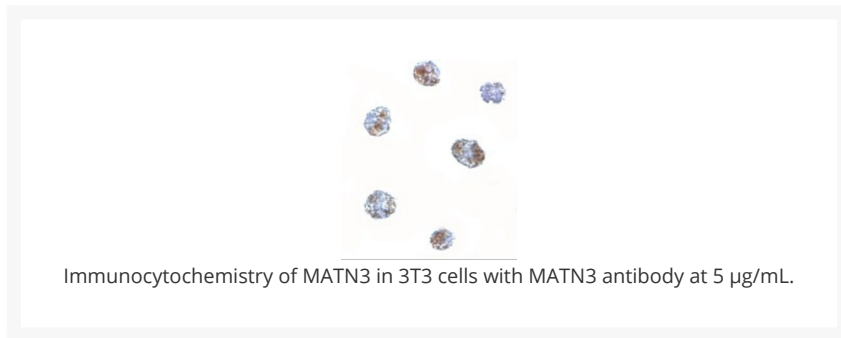
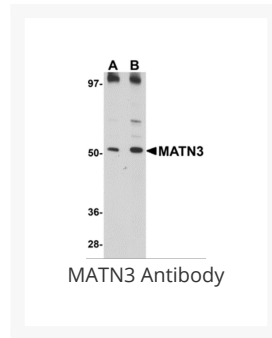




MATN3 Antibody

Cat. No.: 5127



Ψ Specifications

HOST SPECIES:	Rabbit
SPECIES REACTIVITY:	Human, Mouse, Rat
HOMOLOGY:	Predicted species reactivity based on immunogen sequence: Chicken: (90%)
IMMUNOGEN:	MATN3 antibody was raised against a 13 amino acid synthetic peptide from near the carboxy terminus of human MATN3. The immunogen is located within amino acids 400 - 450 of MATN3.
TESTED APPLICATIONS:	ELISA, ICC, WB

APPLICATIONS:	MATN3 antibody can be used for detection of Matn3 by Western blot at 1 - 2 µg/mL. Antibody can also be used for immunocytochemistry starting at 5 µg/mL. Antibody validated: Western Blot in mouse samples and Immunocytochemistry in mouse samples. All other applications and species not yet tested.
POSITIVE CONTROL:	1) Cat. No. 1282 - 3T3 (NIH) Cell Lysate
	2) Cat. No. 17-201 - 3T3/BALB Cell Slide

Ψ Properties

PURIFICATION:	MATN3 Antibody is affinity chromatography purified via peptide column.
CLONALITY:	Polyclonal
ISOTYPE:	IgG
CONJUGATE:	Unconjugated
PHYSICAL STATE:	Liquid
BUFFER:	MATN3 Antibody is supplied in PBS containing 0.02% sodium azide.
CONCENTRATION:	1 mg/mL
STORAGE CONDITIONS:	MATN3 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:	MATN3
ALTERNATE NAMES:	MATN3 Antibody: HOA, OS2, EDM5, DIPOA, OADIP, Matrilin-3
ACCESSION NO.:	AAI39908
PROTEIN GI NO.:	146218451
GENE ID:	4148
USER NOTE:	Optimal dilutions for each application to be determined by the researcher.

Ψ Background and References

BACKGROUND:	<p>MATN3 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. MATN3 is composed of a single N-terminal von Willebrand Factor A (vWFA) domain followed by four epidermal growth factor (EGF) repeats and a coiled-coil domain whereas MATN1 is composed of two vWFA domains separated by one EGF-like 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 aberrant expression and processing of MATN3 are hallmarks of conventional cartilaginous neoplasms.</p>
REFERENCES:	<p>1) Pei M, Luo J, and Chen Q. Enhancing and maintaining matrilins. <i>Osteoarthritis Cartilage</i>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. <i>J. Biol. Chem.</i>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. <i>Dev. Biol.</i>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. <i>Arthritis Rheum</i>2002; 46:404-19.</p>

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