

MATN4 Antibody

Catalog # ASC10881

Product Information

Application	WB, IF, E, IHC-P
Primary Accession	O95460
Other Accession	NP_085080 , 13699834
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	68487
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	MATN4 antibody can be used for detection of MATN4 by Western blot at 1 μ g/mL. Antibody can also be used for immunohistochemistry starting at 2.5 μ g/mL. For immunofluorescence start at 20 μ g/mL.

Additional Information

Gene ID	8785
Other Names	Matrilin-4, MATN4
Target/Specificity	MATN4;
Reconstitution & Storage	MATN4 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.
Precautions	MATN4 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	MATN4
Function	Major component of the extracellular matrix of cartilage.
Cellular Location	Secreted.
Tissue Location	Embryonic kidney, lung and placenta.

Background

MATN4 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. Members of 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 such as embryonic kidney, lung, bone, cartilage and nervous system. The matrilin genes are strictly and differently regulated and their expression may serve as markers for cellular differentiation. MATN4 could serve as an odontoblast differentiation marker, e.g. in odontoblast stem cell research.

References

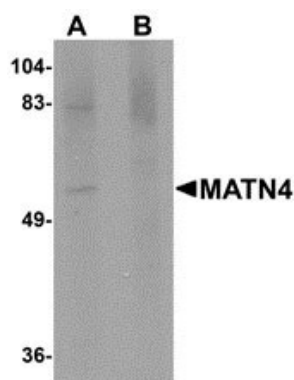
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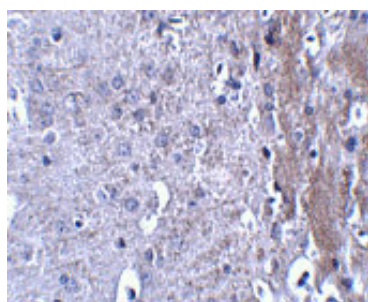
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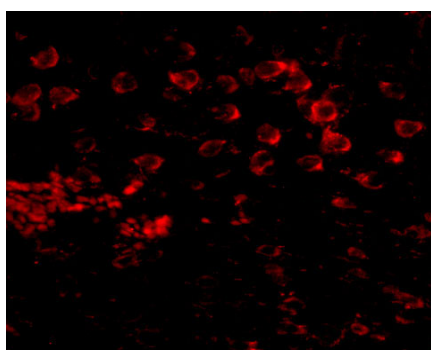
Images



Western blot analysis of MATN4 in rat brain tissue lysate with MATN4 antibody at 1 $\mu\text{g/mL}$ in (A) the absence and (B) the presence of blocking peptide.



Immunohistochemistry of MATN4 in mouse brain tissue with MATN4 antibody at 2.5 $\mu\text{g/mL}$.



Immunofluorescence of MATN4 in mouse brain tissue with MATN4 antibody at 20 $\mu\text{g/mL}$.

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