

MATN4 Antibody
Catalog # ASC10881**Specification**

MATN4 Antibody - Product Information

Application	WB, IHC, IF
Primary Accession	O95460
Other Accession	NP_085080 , 13699834
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Application Notes	MATN4 antibody can be used for detection of MATN4 by Western blot at 1 µg/mL. Antibody can also be used for immunohistochemistry starting at 2.5 µg/mL. For immunofluorescence start at 20 µg/mL.

MATN4 Antibody - Additional Information

Gene ID	8785
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.

MATN4 Antibody - Protein Information

Name MATN4

Function

Major component of the extracellular matrix of cartilage.

Cellular Location

Secreted.

Tissue Location

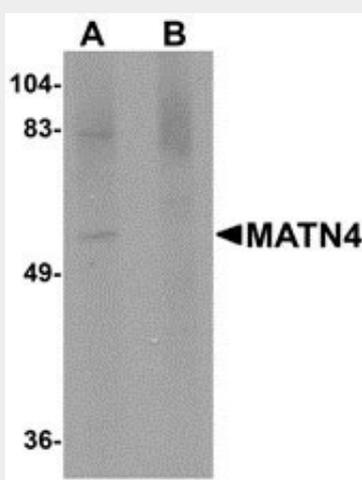
Embryonic kidney, lung and placenta.

MATN4 Antibody - Protocols

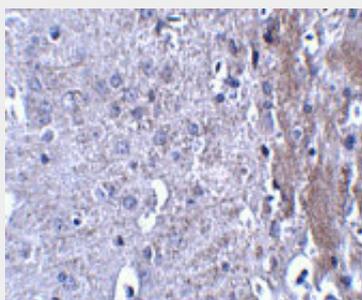
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

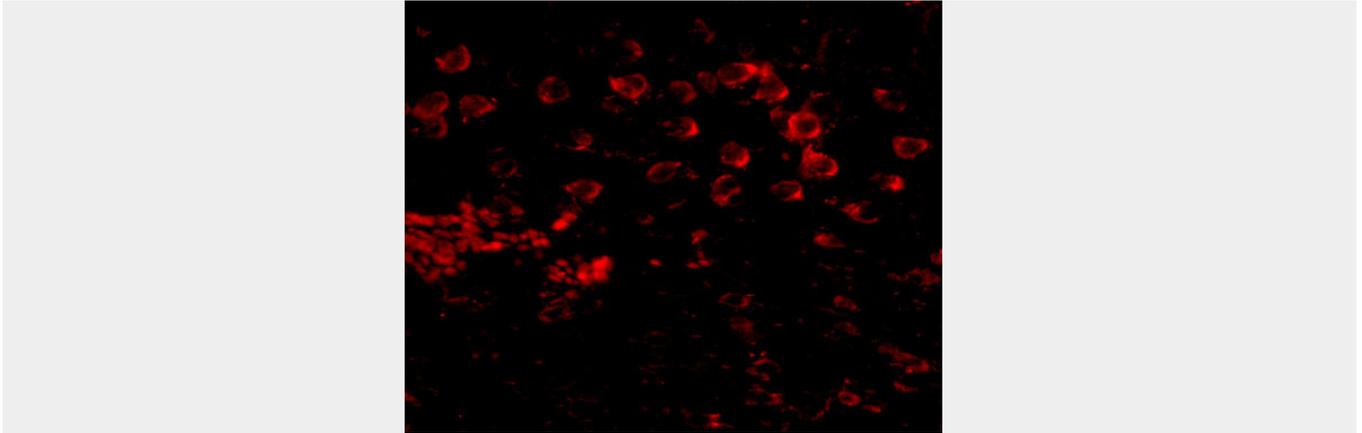
MATN4 Antibody - Images



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 µg/mL.

MATN4 Antibody - 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.

MATN4 Antibody - References

Pei M, Luo J, and Chen Q. Enhancing and maintaining chondrogenesis of synovial fibroblasts by cartilage extracellular matrix protein matrilins. *Osteoarthritis Cartilage* 2008; 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.
Deak F, Wagener R, Kiss I, et al. The matrilins: a novel family of oligomeric extracellular matrix proteins. *Matrix Biol.* 1999; 18:55-64.
Klatt AR, Nitche DP, Kobbe B, et al. Molecular structure, processing, and tissue distribution of matrilin. *J. Biol. Chem.* 2001; 276:17267-75.