

Datasheet for ABIN500240

anti-MATN1 antibody (N-Term)



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1 Image

Overview

Quantity:	0.1 mg
Target:	MATN1
Binding Specificity:	N-Term
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MATN1 antibody is un-conjugated
Application:	Western Blotting (WB), Enzyme Immunoassay (EIA)

Product Details

Immunogen:	MATN1 antibody was raised against a 12 amino acid peptide from near the amino terminus of human MATN1.
Isotype:	IgG
Specificity:	This antibody detects MATN1 at N-term.
Cross-Reactivity (Details):	Species reactivity (tested): Human, mouse, rat
Purification:	Peptide affinity chromatography

Target Details

Target:	MATN1
Alternative Name:	Matrilin-1 (MATN1 Products)

Target Details

Background: 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. Synonyms: CMP, CRTM, Cartilage matrix protein, MATN1

Gene ID: 4146

NCBI Accession: [NP_002370](#)

UniProt: [P21941](#)

Application Details

Application Notes: ELISA. Western blot: 1 - 2 µg/mL.
Other applications not tested.
Optimal dilutions are dependent on conditions and should be determined by the user.

Restrictions: For Research Use only

Handling

Buffer: PBS containing 0.02 % sodium azide

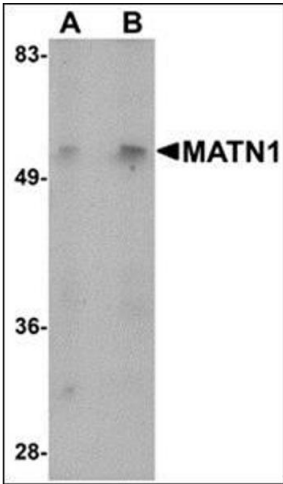
Preservative: Sodium azide

Precaution of Use: This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling Advice: Avoid repeated freezing and thawing.

Storage: 4 °C/-20 °C

Storage Comment: Store at 2 - 8 °C for up to one month or (in aliquots) at -20 °C for longer.



Western Blotting

Image 1. Western blot analysis of MATN1 in mouse liver tissue lysate with this product at (A) 1 and (B) 2 µg/ml.