

## Product datasheet for **TA306761**

### **MATN1 Rabbit Polyclonal Antibody**

#### **Product data:**

|                              |  |
|------------------------------|--|
| <b>Product Type:</b>         | Primary Antibodies   |
| <b>Applications:</b>         | IF, IHC, WB  |
| <b>Recommended Dilution:</b> | WB: 1 - 2 ug/mL, ICC: 5 ug/mL, IF: 20 ug/mL  |
| <b>Reactivity:</b>           | Human, Mouse, Rat  |
| <b>Host:</b>                 | Rabbit   |
| <b>Isotype:</b>              | IgG  |
| <b>Clonality:</b>            | Polyclonal   |
| <b>Immunogen:</b>            | MATN1 antibody was raised against a 13 amino acid peptide from near the carboxy terminus of human MATN1.   |
| <b>Formulation:</b>          | PBS containing 0.02% sodium azide.   |
| <b>Concentration:</b>        | 1ug/ul   |
| <b>Purification:</b>         | Affinity chromatography purified via peptide column  |
| <b>Conjugation:</b>          | Unconjugated   |
| <b>Storage:</b>              | Store at -20°C as received.  |
| <b>Stability:</b>            | Stable for 12 months from date of receipt.   |
| <b>Gene Name:</b>            | matrilin 1, cartilage matrix protein   |
| <b>Database Link:</b>        | <a href="#">NP_002370</a><br><a href="#">Entrez Gene 17180 Mouse</a> <a href="#">Entrez Gene 297894 Rat</a> <a href="#">Entrez Gene 4146 Human</a><br><a href="#">P21941</a> |



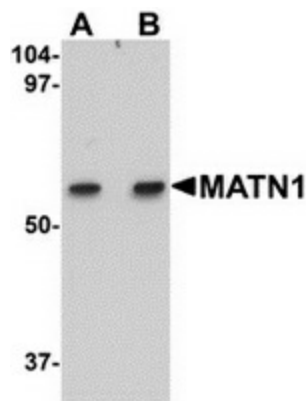
[View online »](#)

**Background:**

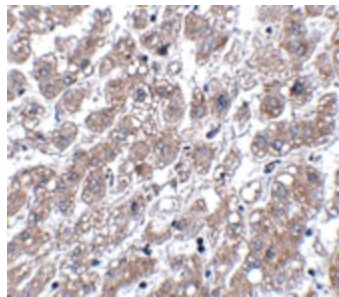
Matrilins (MATNs) are a family of non-collagenous extra-cellular matrix (ECM) proteins consisting of four known members that have been proposed to play key roles in modulating cellular phenotypes during chondrogenesis of mesenchymal stem cells (MSCs). MATN1 and MATN3 are expressed specifically in cartilage 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:**

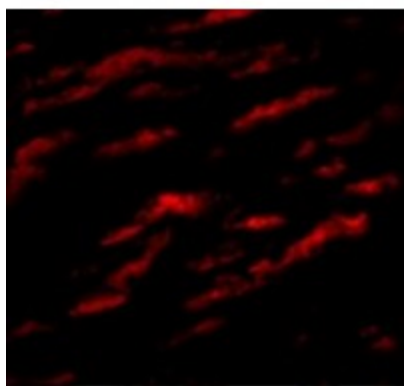
CMP; CRTM

**Product images:**

Western blot analysis of MATN1 in rat liver tissue lysate with MATN1 antibody at (A) 1 and (B) 2 ug/ml.



Immunohistochemistry of MATN1 in human liver tissue with MATN1 antibody at 5 ug/ml.



Immunofluorescence of MATN1 in Human Liver cells with MATN1 antibody at 20 ug/mL.