

# Anti-Matrilin 3 Antibody

Catalog # ABO11230

## Product Information

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|--------------------------|------------------------------------------------------------------------------------------|
| <b>Application</b>       | WB                                                                                       |
| <b>Primary Accession</b> | <a href="#">O15232</a>                                                                   |
| <b>Host</b>              | Rabbit                                                                                   |
| <b>Reactivity</b>        | Human                                                                                    |
| <b>Clonality</b>         | Polyclonal                                                                               |
| <b>Format</b>            | Lyophilized                                                                              |
| <b>Description</b>       | Rabbit IgG polyclonal antibody for Matrilin-3(MATN3) detection. Tested with WB in Human. |

**Reconstitution** Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

## Additional Information

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|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene ID</b>                  | 4148                                                                                                                                                                               |
| <b>Other Names</b>              | Matrilin-3, MATN3                                                                                                                                                                  |
| <b>Calculated MW</b>            | 52817                                                                                                                                                                              |
| <b>Application Details</b>      | Western blot, 0.1-0.5 µg/ml, Human                                                                                                                                                 |
| <b>Subcellular Localization</b> | Secreted.                                                                                                                                                                          |
| <b>Tissue Specificity</b>       | Expressed only in cartilaginous tissues, such as vertebrae, ribs and shoulders.                                                                                                    |
| <b>Source</b>                   | Eukaryota                                                                                                                                                                          |
| <b>Protein Name</b>             | Matrilin-3                                                                                                                                                                         |
| <b>Contents</b>                 | Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05mg Thimerosal, 0.05mg NaN <sub>3</sub> .                                                      |
| <b>Immunogen</b>                | A synthetic peptide corresponding to a sequence at the C-terminus of human Matrilin 3(466-486aa NTKLDDILEKLKINEYGQIHR).                                                            |
| <b>Purification</b>             | Immunogen affinity purified.                                                                                                                                                       |
| <b>Cross Reactivity</b>         | No cross reactivity with other proteins                                                                                                                                            |
| <b>Storage</b>                  | At -20 °C for one year. After reconstitution, at 4 °C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing. |

## Sequence Similarities

Contains 4 EGF-like domains.

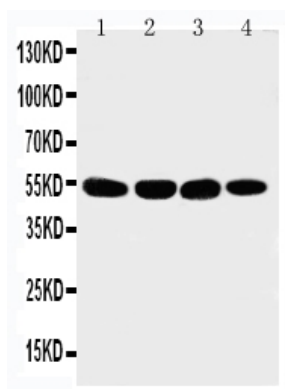
## Protein Information

|                          |                                                                                                                                      |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| <b>Name</b>              | MATN3                                                                                                                                |
| <b>Function</b>          | Major component of the extracellular matrix of cartilage and may play a role in the formation of extracellular filamentous networks. |
| <b>Cellular Location</b> | Secreted {ECO:0000250   UniProtKB:O35701}.                                                                                           |
| <b>Tissue Location</b>   | Expressed only in cartilaginous tissues, such as vertebrae, ribs and shoulders                                                       |

## Background

MATN3(Matrilin-3) is a protein that in humans is encoded by the MATN3 gene. This gene encodes a member of von Willebrand factor A domain containing protein family. This family of proteins is though to be involved in the formation of filamentous networks in the extracellular matrices of various tissues. By fluorescence in situ hybridization, Belluoccio et al.(1998) mapped the human MATN3 gene to chromosome 2p24-p23. Wagener et al.(2000) mapped the mouse Matn3 gene to the proximal end of chromosome 12, linked to the genes Synd1, Apob, Dtnb, and Kif3c. The human homologs of all 5 of these genes map to 2p23, indicating considerable homology of synteny. This protein contains two von Willebrand factor A domains; it is present in the cartilage extracellular matrix and has a role in the development and homeostasis of cartilage and bone. Mutations in this gene result in multiple epiphyseal dysplasia.

## Images



Anti-Matrilin 3 antibody, ABO11230, Western blotting  
Lane 1: 293T Cell Lysate  
Lane 2: COLO320 Cell Lysate  
Lane 3: HELA Cell Lysate  
Lane 4: A549 Cell Lysate

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