

## Basic Information

|                    |  |
|--------------------|--|
| Product Name       | Anti-MMP3 Antibody   |
| Gene Name          | MMP3   |
| Source             | Rabbit   |
| Clonality          | Polyclonal   |
| Isotype            | IgG  |
| Species Reactivity | human  |
| Tested Application | IHC  |
| Contents           | 500 ug/ml antibody with PBS, 0.02% NaN <sub>3</sub> , 1 mg/ml BSA and 50% glycerol.  |
| Immunogen          | A synthetic peptide corresponding to a sequence at the C-terminal of human MMP3, different from the related mouse sequence by seven amino acids, and from the related mouse sequence by ten amino acids.   |
| Concentration      | 500 ug/ml  |
| Purification       | Immunogen affinity purified.   |
| Dilution Ratios    | Immunohistochemistry in paraffin section IHC-(P): 1:50-400<br>(Boiling the paraffin sections in 10mM citrate buffer, pH6.0, or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user. |

## Storage

12 months from date of receipt, -20°C as supplied.

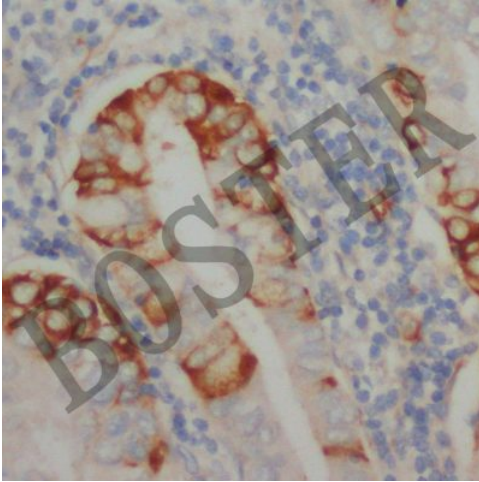
## Background Information

Stromelysin-1, also known as matrix metalloproteinase-3 (MMP-3), is an enzyme that in humans is encoded by the MMP3 gene. It is mapped to 11q22.2. Proteins of the matrix metalloproteinase (MMP) family are involved in the breakdown of extracellular matrix and during tissue remodeling in normal physiological processes, such as embryonic development and reproduction, as well as in disease processes, such as arthritis, and tumour metastasis. The MMP-3 enzyme degrades collagen types II, III, IV, IX, and X, proteoglycans, fibronectin, laminin, and elastin. In addition, MMP-3 can also activate other MMPs such as MMP-1, MMP-7, and MMP-9, rendering MMP-3 crucial in connective tissue remodeling. The enzyme is thought to be involved in wound repair, progression of atherosclerosis, and tumor initiation.

## Reference

Anti-MMP3 Antibody被引用在2文献中。

## Selected Validation Data



IHC analysis of MMP3 using anti-MMP3 antibody (BA1272-1).

MMP3 was detected in a paraffin-embedded section of human breast cancer tissue. Biotinylated goat anti-rabbit IgG was used as secondary antibody. The tissue section was incubated with rabbit anti-MMP3 Antibody (BA1272-1) at a dilution of 1:200 and developed using Streptavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB (Catalog # AR1027) as the chromogen.