

## MMP-12 (D411) polyclonal antibody

Catalog: BS3699

Host: Rabbit

Reactivity: Human

### BackGround:

Matrix metalloproteinase 12 (MMP-12) is able to degrade elastin, entactin, laminin-1, fibronectin, type IV collagen as well as insulin B-chain and casein. MMP-12 is structurally similar to the classical MMPs (MMP-1, MMP-3); it contains a propeptide with autoinhibitory cysteine switch site, a well conserved zinc site, hinge region and hemopexin domain. MMP-12 lacks a transmembrane domain and furin cleavage site. The zymogen for MMP-12 is about 54 kDa, and is quickly activated to the 45 kDa form, and this breaks down to cascade of active forms, ending with the common 22 kDa form. Stimulated macrophages produce MMP-12; it has also been found in osteosarcoma cells, synovial fibroblasts and lung fibroblasts. MMP-12 levels in quiescent cells and tissues are minimal (with the exception of macrophages), and mitogen stimulation or protein concentration is often needed to visualize the bands. In addition, cell types differ greatly in the quantity of MMP-12 produced.

### Product:

1 mg/ml in Phosphate buffered saline (PBS) with 0.05% sodium azide, approx. pH 7.2.

### Molecular Weight:

~ 48 kDa

### Swiss-Prot:

P39900

### Purification&Purity:

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

### Applications:

WB: 1:500~1:1000

IHC: 1:50~1:200

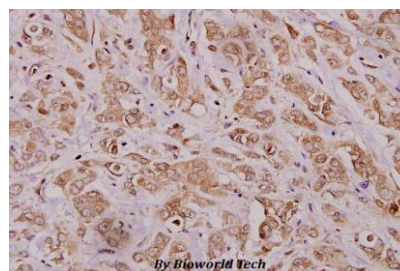
### Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

### Specificity:

MMP-12 (D411) polyclonal antibody detects endogenous levels of MMP-12 protein.

### DATA:



Immunohistochemistry (IHC) analyzes of MMP-12 (D411) pAb in paraffin-embedded human breast carcinoma tissue at 1:100.

### Note:

For research use only, not for use in diagnostic procedure.

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