

## AP06236PU-N

## Polyclonal Antibody to MMP-9 - Aff - Purified

### Alternate names:

92 kDa gelatinase, 92 kDa type IV collagenase, CLG4B, GELB, Gelatinase B, MMP9, Matrix metalloproteinase-9

### Quantity:

0.1 mg

### Concentration:

1.0 mg/ml

### Background:

The matrix metalloproteinases (MMP) are a family of peptidase enzymes responsible for the degradation of extracellular matrix components, including collagen, gelatin, fibronectin, laminin and proteoglycan. Transcription of MMP genes is differentially activated by phorbol ester, lipopolysaccharide (LPS) or taphylococcal enterotoxin B (SEB). MMP catalysis requires both calcium and zinc. MMP-9 (also designated 92-kDa type IV collagenase or gelatinase B) has been shown to degrade bone collagens in concert with MMP-1 (also designated interstitial collagenase, fibroblast collagenase or collagenase-1), and cysteine proteases and may play a role in bone osteoclastic resorption. MMP-1 is down-regulated by p53, and abnormality of p53 expression may contribute to joint degradation in rheumatoid arthritis by regulating MMP-1 expression.

### Uniprot ID:

[P14780](#)

### NCBI:

[NP\\_004985.2](#)

### GeneID:

[4318](#)

### Host:

Rabbit

### Immunogen:

Synthetic peptide, corresponding to amino acids 650-700 of Human MMP9.

### Format:

**State:** Liquid purified Ig fraction

**Purification:** Affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE)

**Buffer System:** Phosphate buffered saline (PBS), pH 7.2.

**Preservatives:** 0.05% sodium azide

### Applications:

**Western blot:** 1/500-1/1000.

**Immunohistochemistry on paraffin sections:** 1/50-1/200.

**Immunofluorescence:** 1/50-1/200.

Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

### Molecular Weight:

~ 78 kDa

### Specificity:

This antibody detects endogenous levels of MMP-9 protein.  
(region surrounding Trp680)

### Species Reactivity:

**Tested:** Human.

### Storage:

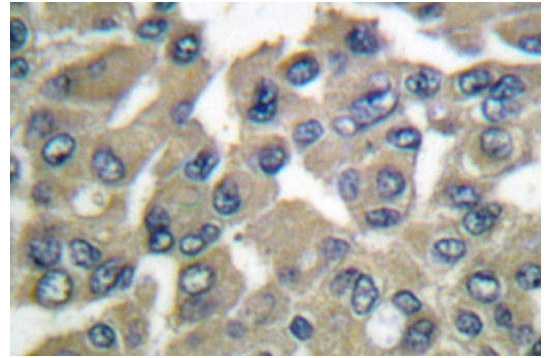
Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.

Avoid repeated freezing and thawing.

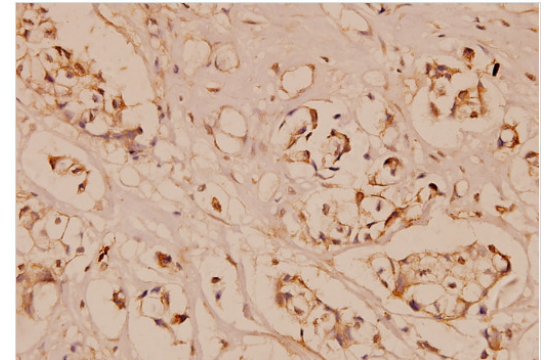
Shelf life: one year from despatch.

**Pictures:**

**Immunohistochemistry (IHC)** analyzes of MMP-9 antibody (Cat.-No.: AP06236PU-N) in paraffin-embedded human breast carcinoma tissue.



**Immunohistochemistry (IHC)** analyzes of MMP-9 antibody (Cat.-No.: AP06236PU-N) in paraffin-embedded human breast carcinoma tissue at 1:100.



**Western blot (WB)** analysis of MMP9 (W680) polyclonal antibody at 1:500 dilution. Lane 1: HEK293T whole cell lysate. Lane 2: NIH-3T3 whole cell lysate. Lane 3: H9C2 whole cell lysate.

