

Product datasheet for **AM05378PU-N**

MMP3 Mouse Monoclonal Antibody [Clone ID: 1B4]

Product data:

| | |
|-------------------------|---|
| Product Type: | Primary Antibodies |
| Clone Name: | 1B4 |
| Applications: | ELISA, IHC, WB |
| Recommended Dilution: | ELISA. Western Blot: 1-2 µg/ml. Immunohistochemistry on Paraffin Sections: 1-5 µg/ml. |
| Reactivity: | Human |
| Host: | Mouse |
| Isotype: | IgG1 |
| Clonality: | Monoclonal |
| Immunogen: | Hybridoma produced by the fusion of splenocytes from BALB/c mice immunized with a synthetic peptide derived from the C-terminus of the Human MMP3 protein and mouse myeloma Ag8563 cells. |
| Specificity: | This antibody recognizes Human Matrix Metalloproteinase 3. Other species not tested. |
| Formulation: | PBS State: Purified State: Liquid purified IgG fraction Preservative: 0.08% Sodium Azide |
| Concentration: | lot specific |
| Purification: | Affinity Chromatography on Protein A/G |
| Conjugation: | Unconjugated |
| Storage: | Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. |
| Stability: | Shelf life: one year from despatch. |
| Predicted Protein Size: | 50 kDa (Proenzyme) |
| Gene Name: | matrix metalloproteinase 3 |
| Database Link: | Entrez Gene 4314 Human P08254 |



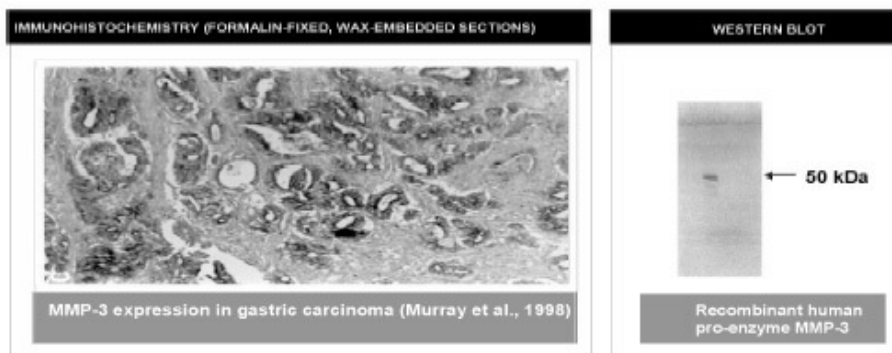
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Background:

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 staphylococcal enterotoxin B (SEB). MMP catalysis requires both calcium and zinc. MMP-3, MMP-10 and MMP-11 (also designated stromelysin-1, 2 and 3, respectively) activate procollagenase. MMP-3 activation of procollagenase can occur via two pathways. Direct activation by MMP-3 is slow and activation by MMP-3 in conjunction with tissue or plasma proteinases is rapid. MMP-10 is expressed in small intestine, and at lower levels in lung and heart. MMP-11 is specifically expressed in stromal cells of breast carcinomas and contributes to epithelial cell malignancies.

Synonyms:

Stromelysin-1, SL-1, Matrix metalloproteinase-3, Transin-1, MMP3, STMY1

Product images:

Left: Immunohistochemical staining of human gastric carcinoma tissue using MMP-3 antibody. Right: Western blot of recombinant human MMP-3 proenzyme using MMP-3 antibody.