

Product datasheet for **AM05380PU-N**

MMP9 (Active Protein) Mouse Monoclonal Antibody [Clone ID: 4A3]

Product data:

Product Type:	Primary Antibodies
Clone Name:	4A3
Applications:	IHC, WB
Recommended Dilution:	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 Nterminus of the human MMP9 protein and mouse myeloma Ag8563 cells. Sequence common in rabbit, dog and pig.
Specificity:	This antibody reacts to Activated Matrix Metalloproteinase 9.
Formulation:	Phosphate buffered saline with 0.08% sodium azide State: Purified State: Liquid purified Ig
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	The antibody can be shipped at ambient temperature. Store (in aliquots) at -20°C only. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	matrix metalloproteinase 9
Database Link:	Entrez Gene 4318 Human P14780



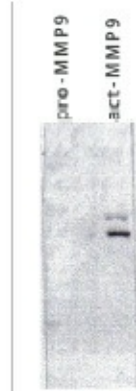
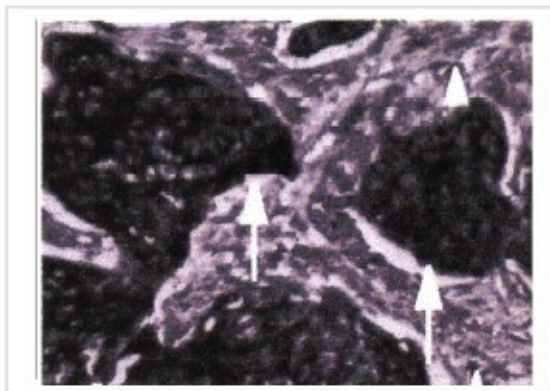
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Background:

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-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.

Synonyms:

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

Product images:

Left: Immunohistochemical staining of oesophageal tumors using Act-MMP9 antibody. Right: Western blot using MMP9 antibody on recombinant human proenzyme MMP9 (left lane) and activated enzyme (right lane).