

AF6610**Monoclonal Antibody to MMP-3 - Purified**

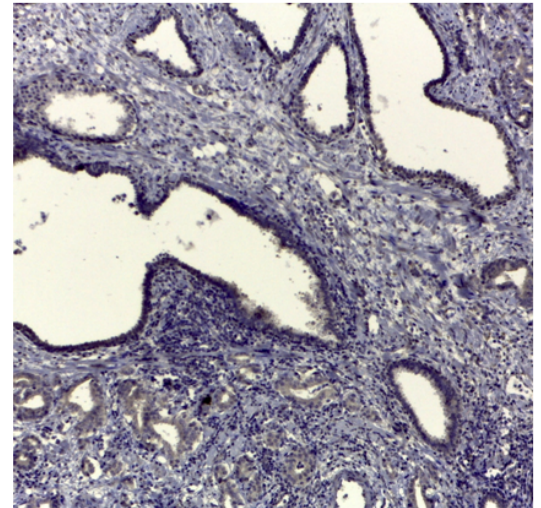
Alternate names:	MMP3, Matrix metalloproteinase-3, SL-1, STMY1, Stromelysin-1, Transin-1
Quantity:	0.1 mg
Concentration:	0.5 mg/ml
Background:	Proteins of the matrix metalloproteinase (MMP) family are involved in the breakdown of extracellular matrix in normal physiological processes, such as embryonic development, reproduction, and tissue remodeling, as well as in disease processes, such as arthritis and metastasis. Most MMP's are secreted as inactive proproteins which are activated when cleaved by extracellular proteinases. MMP3 is an enzyme which degrades fibronectin, laminin, collagens III, IV, IX, and X, and cartilage proteoglycans. The enzyme is thought to be involved in wound repair, progression of atherosclerosis, and tumor initiation. MMP3 is reported to be implicated in rheumatoid arthritis and some forms of cancer.
Uniprot ID:	P08254
NCBI:	NP_002413.1
GenelD:	4314
Host / Isotype:	Mouse / IgG1
Recommended Isotype Controls:	SM10P (for use in human samples), AM03095PU-N
Clone:	55-2A4
Immunogen:	Human Synovial cells.
Format:	State: Liquid purified Ig fraction Purification: Affinity Chromatography on Protein A Buffer System: 0.1M Sodium Phosphate buffer, pH 7.0 Stabilizers: 0.5% Protease-free BSA
Applications:	Enzyme Immunoassay (EIA). Western blot: 0.5 µg/ml Immunohistochemistry on Frozen/Paraffin Sections: 4-10 µg/ml. Heat induced antigen retrieval with citrat buffer, pH 6.2 using a pressure cooker was preformed. Sections were blocking using a commercially available casein solution. Signal was generated using a commercially available polymer HRP detection system and DAB. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	The antibody specifically reacts with Human MMP-3. It cross-reacts with Swine MMP-3 and Human MMP-10 (34%) but not with Mouse, Rat, Rabbit and Bovine MMP-3.
Species Reactivity:	Tested: Human and Pig.

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.

General Readings:

1. Obata, K. et al., Clin. Chim. Acta, 211, 59-72, 1992.
2. Windsor, L. J. et al., J. Biol. Chem., 268, 17341-17347, 1993.
3. Nakagawa, T. et al., J. Neurosurg., 81, 69-77, 1994.
4. Umehara, F. et al., J. Neuropathol. Exp. Neurol., 57, 839-849, 1998.
5. Pap, G. et al., Pathol. Res. Pract., 194, 41-47, 1998.

Pictures: Staining of Human prostatic adenocarcinoma with MMP-3 Antibody Cat.-No AF6610 (Clone 55-2A4) at 4 µg/ml. Antibody positive in cytoplasm and in lumen secreted. 10x



Staining of Human prostatic adenocarcinoma with MMP-3 Antibody Cat.-No AF6610 (Clone 55-2A4) at 4 µg/ml. Antibody positive in cytoplasm and in lumen secreted. 40x

