

Polyclonal Antibody to MMP-1 - Purified

Alternate names:	CLG, Fibroblast collagenase, Interstitial collagenase, MMP1, Matrix metalloproteinase-1
Catalog No.:	AP00545PU-N
Quantity:	0.5 mg
Concentration:	1.0 mg/ml
Background:	Matrix metalloproteinases (MMP) are proteolytic enzymes capable of degrading connective tissue components. Imbalanced secretion of certain MMP or disturbances in the differential control of MMP by tissue inhibitor of MMPs (TIMPs) are implicated in the invasive potential of malignant tumors. Interstitial collagenase (MMP-1), 72 kDa gelatinase A/type IV collagenase (MMP-2), and 92 kDa gelatinase B/type IV collagenase (MMP-9) dissolve extracellular matrix (ECM) and may initiate and promote angiogenesis.
Uniprot ID:	P03956
NCBI:	NP_002412.1
GeneID:	4312
Host:	Rabbit
Immunogen:	A synthetic peptide from the middle region of the Human MMP-1. Remarks: Mol. Wt of Antigen: 52 kDa (unglycosylated) and 57 kDa (glycosylated) species of pro form of MMP-1 plus 42 kDa (unglycosylated) and 47 kDa (glycosylated) active form of MMP-1.
Format:	State: Liquid purified IgG fraction Purification: Protein A Chromatography Buffer System: 10 mM PBS, pH 7.4 with 0.2% BSA and 0.09% Sodium Azide.
Applications:	Western Blotting: 5-10 µg/ml for 2 hrs at RT. Immunohistology (Formalin/Paraffin): Use 1/25-1/50 for 20 min at RT. Requires boiling tissue sections in 10 mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 min. <i>Recommended Positive Control:</i> Conditioned, serum-free medium from (TPA-treated) HFL-1 cells. Placenta, Bladder, Breast, Ovarian Carcinoma. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody detects MMP-1. Cellular Localization: Cytoplasmic. Species: Human. Does not react with Cow. Other species not tested.
Storage:	Store the antibody undiluted at 2-8°C. Shelf life: one year from despatch.

General Readings: 1. Birkedal-Hansen B, et. al. Biochemistry, 1988;27:6751-6758.
2. Windsor LJ, et. al. Biochemistry, 1991;30:641-647.

Pictures: Formalin-fixed, paraffin-embedded human placenta stained with MMP-1 (AP00545PU-N) using peroxidase-conjugate and AEC chromogen. Note cytoplasmic staining of trophoblasts

