

**MOUSE ANTI-MMP3 [Stromelysin-1]
MONOCLONAL ANTIBODY**

CATALOG NUMBER:	MAB3369	QUANTITY:	100 µg
LOT NUMBER:		CONCENTRATION:	200 µg/mL
CLONE NAME:	SL-1 IID4	HOST/ISOTYPE:	IgG _{2b}

BACKGROUND: MMPs are frequently expressed in malignant neoplastic cells and play crucial roles in tumor invasion and metastasis. Tissue inhibitors of matrix metalloproteinases (TIMPs) control the activity of MMPs. The tissue distribution of three major MMPs has been defined in human mammary pathology: 1) collagenase (MMP-1) which degrades fibrillar interstitial collagens; 2) a 72-kDa gelatinase (MMP-2) which mainly degrades type IV collagen and denatured collagens; and 3) stromelysin (MMP-3) which has a wider range of action, degrading several matrix components including the core proteins of proteoglycans, laminin and non-helical regions of collagens.

SPECIFICITY: MAB3369 recognizes one doublet of 54kDa/59kDa and another doublet of 44kDa/49kDa, which are identified as unglycosylated and glycosylated species of pro (latent) and active forms of matrix metalloproteinase-3 (MMP-3; also known as Stromelysin-1 of Transin). MAB3369 shows no cross-reaction with the pro and active forms of other MMPs.

IMMUNOGEN: APMA (4-Aminophenylmercuric acetate) activated Human stromelysin-1

APPLICATIONS: Immunofluorescence

Immunoprecipitation (Use Protein A): 2µg/ml protein lysate.

Western blotting: 0.5-1.0 µg/ml for 2hrs at RT

Immunohistology (frozen & formalin-fixed): 10-20 µg/ml for 60 minute at room temperature. No special pretreatment is required for staining of formalin-fixed, paraffin-embedded tissue sections.

The optimal dilution for a specific application should be determined by the investigator.

SPECIES REACTIVITY: Human. Others-not tested.

FORMAT: Purified from ascites fluid by Protein A chromatography.

PRESENTATION: 10 mM PBS, pH 7.4, with 0.2% BSA and 0.09% sodium azide.

STORAGE/HANDLING: Antibody with sodium azide is stable for 12 months when stored at 2-8°C.

REFERENCES: Galazka, G, *et al* (1996). APMA (4-aminophenylmercuric acetate) activation of stromelysin-1 involves protein interactions in addition to those with cysteine-75 in the propeptide. *Biochemistry* **35**: 11221-11227.

Mercapide, Javier, *et al* (2003). Stromelysin-1/matrix metalloproteinase-3 (MMP-3) expression accounts for invasive properties of human astrocytoma cell lines. *Int. J. Cancer* **106**: 676-682.

Important Note: *During shipment, small volumes of product will occasionally become entrapped in the seal of the product vial. For products with volumes of 200 µL or less, we recommend gently tapping the vial on a hard surface or briefly centrifuging the vial in a tabletop centrifuge to dislodge any liquid in the container's cap.*

For research use only; not for use as a diagnostic.

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