



**MOUSE ANTI-RAT MMP-13 (COLLAGENASE-3)
MONOCLONAL ANTIBODY**

CATALOG NUMBER:	MAB13426
LOT NUMBER:	
QUANTITY:	100 µg
CONCENTRATION:	200 µg/mL
SPECIFICITY:	It recognizes proteins of ~60 kDa and ~48 kDa which are identified as pro (latent) and activate forms of matrix metalloproteinase-13 (MMP-13; also known as Collagenase-3). Antibody shows no cross-reactivity with the pro and active forms of other MMPs. Human collagenase-3 (MMP13) is a recently identified member of the matrix metalloproteinase (MMP) family that is expressed in breast carcinomas and in articular cartilage from arthritic patients. The MMP-13 gene has been isolated and characterized. This gene is composed of 10 exons and 9 introns and spans over 12.5 kb. The overall organization of the collagenase-3 gene is similar to that of other MMP genes clustered at chromosome 11q22, including fibroblast collagenase (MMP-1), matrilysin (MMP-7), and macrophage metalloelastase (MMP-12), but is more distantly related to genes coding for stromelysin-3 (MMP-11), gelatinase-A (MMP-2), and gelatinase-B (MMP-9), which map outside of this gene cluster. <i>Cellular Localization: Cytoplasmic</i>
ISOTYPE:	IgG ₁
IMMUNOGEN:	Rat MMP-13 from BC-1 cells.
CLONE:	LIPCO IID1
APPLICATIONS:	Western Blotting¹⁻²: 1:200-1:400 at room temperature for 2 hours. Immunofluorescence. Immunoprecipitation (2µg/mg of protein lysate). <i>Optimal working dilutions must be determined by end user.</i>
POSITIVE CONTROL:	Conditioned, serum-free medium from (TPA-treated) rat keratinocyte CCL-4 cells.
CELLULAR LOCALIZATION:	Cytoplasmic
SPECIES REACTIVITIES:	Rat and mouse. Others not tested.
FORMAT:	Purified from ascites fluid by Protein G chromatography.



- PRESENTATION:** Liquid in 10 mM PBS, pH 7.4, with 0.2% BSA and 0.09% sodium azide.
- STORAGE/HANDLING:** Maintain at 2-8°C in undiluted aliquots for up to 12 months.
- REFERENCES:**
1. Lyons, J.G. et al. (1991). *Biochemistry* **30**: 1449-1456.
 2. Lyons, J.G. et al. (1993). *J. Biological Chemistry* **268**: 19143-19151.

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

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 μ L 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.*

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