

**RABBIT ANTI-RAT MMP-9
POLYCLONAL ANTIBODY**

CATALOG NUMBER:	AB19016	QUANTITY:	100 µg
LOT NUMBER:		CONCENTRATION:	1 mg/mL
ALTERNATE NAMES:	Gelatinase B; 92 kDa Type IV Collagenase	EPITOPE:	Catalytic domain
SPECIFICITY:	Recognizes rat MMP-9 pro and active forms. Antibody also reacts with mouse MMP-9 and human MMP-9, other species not tested. Exhibits no cross-reactivity with other MMP family members. The antibody was generated using E. coli-expressed active rat 92 kDa type IV collagenase (catalytic domain) as an immunogen.		
APPLICATIONS:	<p><u>Western blot:</u> 1:2,000 Typically 98-95 kDa pro and 92-88kDa active forms are detected as well as breakdown products under fully reduced conditions. Under non-reduced conditions additional bands may be detected because of SDS-stable TIMP and other inhibitor complexes. CC069 is recommended as a positive control.</p> <p><u>Immunoprecipitation:</u> 1:500</p> <p>MMP-9 is constitutively produced by some tumor cell lines (i.e., HT1080, HL60, and U937), but not in most quiescent cells and tissues. The phorbol ester TPA stimulates production of MMP-9 in some cell types. MMP-9 levels in culture media (pg/mL) are often below the threshold of detection by standard Western Blotting. The enzyme can be concentrated from culture media by gelatin-agarose affinity chromatography (Goldberg, G.I. et al. <i>J. Biol. Chem.</i> 267, 4583-4591. 1992). This can prevent appearance of a spurious band of antibody binding in the vicinity of 68 kDa displayed by some concentrated media.</p> <p><u>Immunohistochemistry:</u> 1:100 in frozen acetone fixed tissues.</p> <p><i>Optimal working dilutions must be determined by end user.</i></p>		
SPECIES REACTIVITY:	Rat, Human, and Mouse. Reactivity with other species has not been confirmed.		
IMMUNOGEN:	E. coli-expressed active rat 92 kDa type IV collagenase (catalytic domain)		
PRESENTATION:	Purified immunoglobulin. Liquid in PBS, containing 0.05% sodium azide.		
STORAGE/HANDLING:	Maintain at 2 ^o -8 ^o C for up to 12 months from date of receipt.		
REFERENCES:	<p>Christopoulos, TA et al. (2004). Diagnostic and classification value of metalloproteinases in squamous human laryngeal carcinoma. <i>Inter J Oncology</i> 24: 1-5.</p> <p>Goldberg, GI et al. (1992). Interaction of 92-kDa type IV collagenase with the tissue inhibitor of metalloproteinases prevents dimerization, complex formation with interstitial collagenase, and activation of the proenzyme with stromelysin. <i>J. Biol. Chem.</i> 267: 4583-4591.</p>		

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 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.*

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