

## Purified Rabbit Anti-rat MMP-9

**Catalog Number:** TP221

**Lot Number:** 120515

**Content:** Protein A purified rabbit IgG, 200 µg, with 0.1% sodium azide, lyophilized.

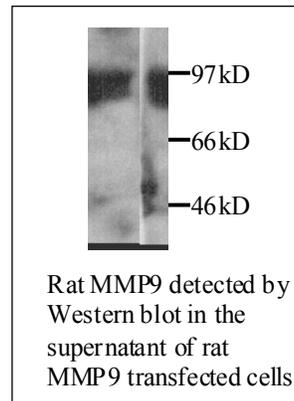
(Reconstitute to 1 mg/ml by adding 200 µl H<sub>2</sub>O)

**Product Description and Usage:** For research use only. This polyclonal antibody, which reacts with rat MMP-9 was generated using *E. coli*-expressed active rat 92-kDa type IV collagenase (catalytic domain) as an immunogen. The tested titer for Western blot is 1:2,000; and for immunoprecipitation, 1:500.

No cross-reactivity with other MMP family members. Cross-reactivity to MMP-9 of other species has not been determined.

**Storage Condition:** 4 C for short term storage or -20 C in small aliquots for long term storage. Avoid repeated freeze and thaw.

**Background:** The mammalian matrix metalloproteinases (MMPs) degrade extracellular matrix in physiological and pathological processes<sup>1</sup>. After cleavage of a signal peptide domain of about 20 amino acids, the MMPs are secreted in latent forms. Upon activation, the N-



terminal propeptide domain is cleaved to generate the active forms of MMP<sup>2</sup>. MMP-9 (92 kDa type IV collagenase, Gelatinase-B) contain the basic structure of propeptide, catalytic, and hemopexin domains. It is an important proteinase in tissue remodeling.

### References:

1. Greenwald RA (1994) Guidelines for clinical trial design for evaluation of MMP inhibitors. *Ann N Y Acad Sci* 732:273-279
2. Van Wart HE, Birkedal-Hansen H (1990) The cysteine switch: a principle of regulation of metalloproteinase activity with potential applicability to the entire matrix metalloproteinase gene family. *Proc Natl Acad Sci U S A* 87:5578-5582