

**MMP-3 Rabbit Monoclonal Antibody  
Product Data Sheet**

**Catalog # 1908-1**

**Clone ID:** EP1186Y      **Lot #:** Please refer to vial  
**Quantity:** 100 uL  
**Type:** Rabbit Monoclonal IgG  
**Species Cross-reactivity:** + Human + Mouse + Rat  
**Applications:** + WB + IHC + ICC + Flow Cytometry + IP  
**Molecular Wt.:** 45/50 kDa  
**UniProt ID:** P08254

**Background:** Effective inhibitors of matrix metalloproteinases (MMPs), a family of connective tissue-degrading enzymes, could be useful for the treatment of diseases such as cancer, multiple sclerosis, and arthritis (1). Matrix metalloproteinase-3 (MMP-3) is a protein involved in tumor invasion and metastasis. MMP3 (stromelysin) is a secreted metalloprotease with a wide range of substrate specificities. MMP3 is synthesized in a preproenzyme form with a calculated size of 54 kDa and a 17-amino acid long signal peptide. Data indicate that the expression and the possible involvement of secreted metalloproteases in tumorigenesis result from a specific interaction between the transforming factor and the target cell, which may vary in different species (2). In neural studies, matrix metalloproteinase-3 (MMP-3) was newly induced and activated in stressed dopamine cells, and the active form of MMP-3 (actMMP-3) was released into the medium. The released actMMP-3, as well as catalytically active recombinant MMP-3 (cMMP-3) led to microglial activation and superoxide generation in microglia and enhanced DA cell death. (3).

**Specificity:** A synthetic peptide corresponding to residues near the C-terminus of human MMP-3 was used as an immunogen.

**Storage Conditions:** Store at -20 °C. Buffer: 50 mM Tris-Glycine (pH 7.4), 0.15 M NaCl, 40% Glycerol, 0.01% sodium azide and 0.05% BSA. Stable for 12 months from date of receipt.

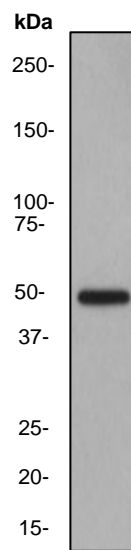
**Recommended Dilutions:**

WB: 1:1000  
IHC: 1:100 – 250  
ICC: 1:100 - 250

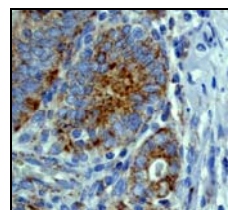
Please visit [www.epitomics.com](http://www.epitomics.com) for recommended protocols

**Background References:**

1. Wilhelm SM, et al. Proc Natl Acad Sci USA 84(19):6725-9, 1987.
2. Pavlovsky AG, et al. Protein Sci, 8(7):1455-62, 1999.
3. Kim YS, et al. FASEB J 21(1):179-87, 2007.



**Fig 1.** Western blot analysis on 0.5 ng of recombinant protein using anti-MMP3 RabMAb (cat. # 1908-1), dilution 1:1000.



**Fig 2.** Immunohistochemical staining of paraffin-embedded human gastric carcinoma using anti-MMP-3 RabMAb (cat. #1908-1).

Product QC'd by: \_\_\_\_\_

**For research use only. Not for use in diagnostic or therapeutic applications.**

This product was manufactured under U.S. Patent No. 5,675,063. For a complete list of protocols and available related products, please visit us at [www.epitomics.com](http://www.epitomics.com).