

Basic Information

Product Name	Anti-MMP8 Antibody	
Gene Name	MMP8	
Source	Rabbit	
Clonality	Polyclonal	
Isotype	IgG	
Species Reactivity	mouse, rat	
Tested Application	WB, IHC, ELISA	
Contents	500 ug/ml antibody with PBS, 0.02% NaN ₃ , 1 mg/ml BSA and 50% glycerol.	
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of mouse MMP-8 different from the related human sequence by eleven amino acids, and from the related rat sequence by nine amino acids.	
Concentration	500 ug/ml	
Purification	Immunogen affinity purified.	
Observed MW	53 kDa	
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry (IHC): 1:50-400 Enzyme linked immunosorbent assay (ELISA): 1:100-1000 (Boiling the paraffin sections in 10mM citrate buffer, pH6.0, or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.	

Storage

12 months from date of receipt, -20°C as supplied.

Background Information

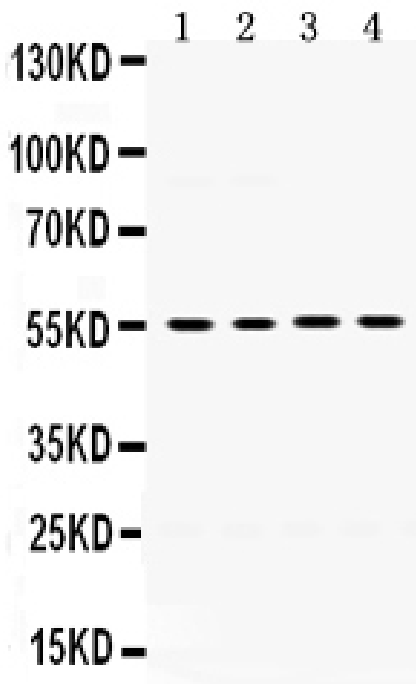
MMP8 (Matrix metalloproteinase 8) is a member of the family of matrix metalloproteinases. It is distinct from the collagenase of skin fibroblasts and synovial cells in substrate specificity and immunologic crossreactivity. MMP8 is mapped to 11q21-q22. MMP8 is an enzyme that degrades fibrillar collagens imparting strength to the fetal membranes, is expressed by leukocytes and chorionic cytotrophoblast cells. The enzyme exhibits 58% homology to human fibroblast collagenase and has the same domain structure. It consists of a 20-residue signal peptide, and an 80-residue propeptide that is lost on autolytic activation by cleavage of an M-L bond. MMP8 was found to possess 57% identity with the deduced protein sequence for fibroblast collagenase with 72% chemical similarity. Matrix metalloproteinases (MMPs) have fundamental roles in tumor progression, but most clinical trials with MMP inhibitors have not shown improvements in individuals with cancer. MMP8 has a paradoxical protective role in cancer and

provides a genetic model to evaluate the molecular basis of gender differences in cancer susceptibility.

Reference

Anti-MMP8 Antibody被引用在2文献中。

Selected Validation Data



Western blot analysis of MMP8 using anti-MMP8 antibody (PB0766). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

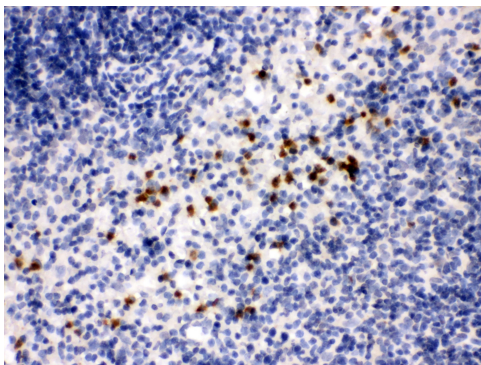
Lane 1: Mouse Testis tissue lysates,

Lane 2: NIH/3T3 whole cell lysates,

Lane 3: HEPA whole cell lysates,

Lane 4: NRK whole cell lysates.

After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-MMP8 antigen affinity purified polyclonal antibody (PB0766) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for MMP8 at approximately 53 kDa. The expected band size for MMP8 is at 53 kDa.



IHC analysis of MMP8 using anti-MMP8 antibody (PB0766).

MMP8 was detected in a paraffin-embedded section of mouse spleen tissue. Biotinylated goat anti-rabbit IgG was used as secondary antibody. The tissue section was incubated with rabbit anti-MMP8 Antibody (PB0766) at a dilution of 1:200 and developed using Streptavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB (Catalog # AR1027) as the chromogen.