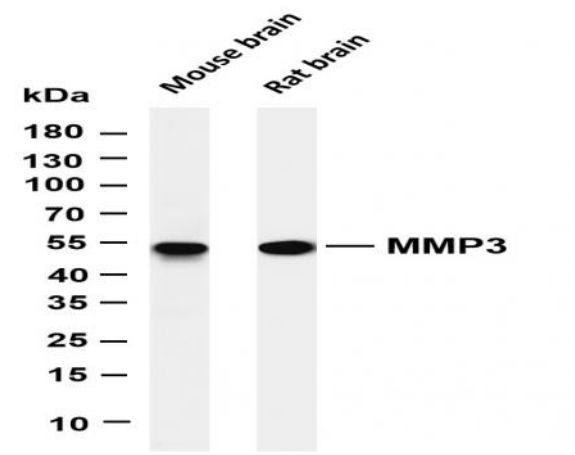
Best Tools for immunology Research

MMP3 (PT0292R) PT® Rabbit mAb

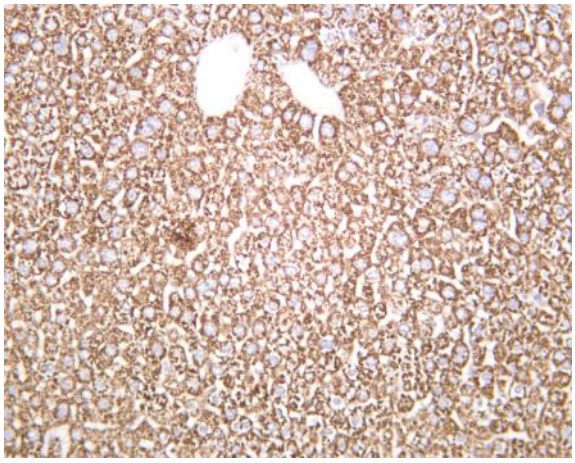
Catalog No :	YM8168
Reactivity :	Human; Mouse; Rat;
Applications :	WB;IHC;IF;IP;ELISA
Target :	MMP-3
Fields :	>>IL-17 signaling pathway;>>TNF signaling pathway;>>Coronavirus disease - COVID-19;>>Transcriptional misregulation in cancer;>>Prostate cancer;>>Rheumatoid arthritis;>>Lipid and atherosclerosis
Gene Name :	MMP3
Protein Name :	Stromelysin-1
Human Gene Id :	4314
Human Swiss Prot No :	P08254
Mouse Gene Id :	17392
Mouse Swiss Prot No :	P28862
Rat Swiss Prot No :	P03957
Specificity :	endogenous
Formulation :	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
Source :	Monoclonal, rabbit, IgG, Kappa
Dilution :	IHC 1:200-1:1000,WB 1:1000-1:5000,IF 1:200-1:1000,ELISA 1:5000-1:20000,IP 1:50-1:200,
Purification :	Protein A
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)

Molecularweight :	54kD
Observed Band :	54kD
Cell Pathway :	Angiogenesis
Background :	matrix metallopeptidase 3(MMP3) Homo sapiens Proteins of the matrix metalloproteinase (MMP) family are involved in the breakdown of extracellular matrix in normal physiological processes, such as embryonic development, reproduction, and tissue remodeling, as well as in disease processes, such as arthritis and metastasis. Most MMP's are secreted as inactive proproteins which are activated when cleaved by extracellular proteinases. This gene encodes an enzyme which degrades fibronectin, laminin, collagens III, IV, IX, and X, and cartilage proteoglycans. The enzyme is thought to be involved in wound repair, progression of atherosclerosis, and tumor initiation. The gene is part of a cluster of MMP genes which localize to chromosome 11q22.3. [provided by RefSeq, Jul 2008],
Function :	catalytic activity:Preferential cleavage where P1', P2' and P3' are hydrophobic residues.,cofactor:Binds 2 zinc ions per subunit.,cofactor:Binds 4 calcium ions per subunit.,domain:The conserved cysteine present in the cysteine-switch motif binds the catalytic zinc ion, thus inhibiting the enzyme. The dissociation of the cysteine from the zinc ion upon the activation-peptide release activates the enzyme.,function:Can degrade fibronectin, laminin, gelatins of type I, III, IV, and V; collagens III, IV, X, and IX, and cartilage proteoglycans. Activates procollagenase.,similarity:Belongs to the peptidase M10A family.,similarity:Contains 4 hemopexin-like domains.,
Subcellular Location :	Cytoplasm
Expression :	Fibroblast,Lung,Synovium,
Tag :	hot,recombinant
Sort :	1
No3 :	ab52915
No4 :	1
Host :	Rabbit
Modifications :	Unmodified

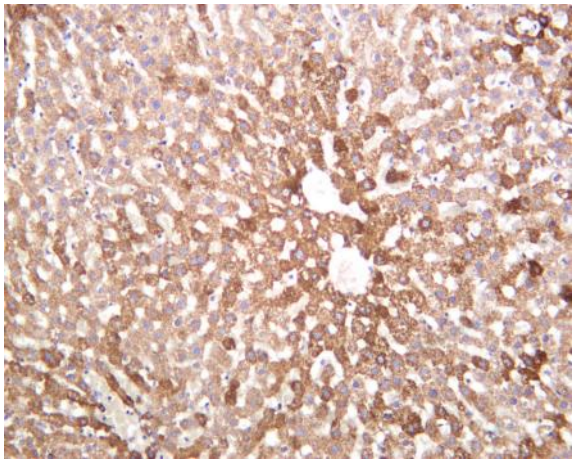
Products Images



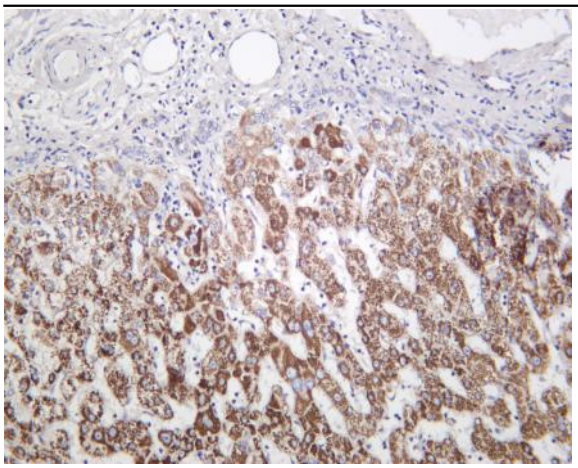
Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-MMP3 (PT0292R) antibody. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: Mouse brain Lane 2: Rat brain Predicted band size: 54kDa Observed band size: 54kDa



Mouse liver was stained with anti-MMP3 (PT0292R) rabbit antibody



Rat liver was stained with anti-MMP3 (PT0292R) rabbit antibody



Human liver was stained with anti-MMP3 (PT0292R) rabbit antibody