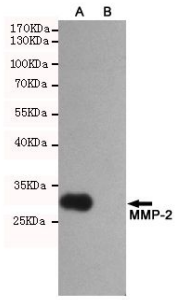
MMP-2

Mouse monoclonal Antibody

#53349

Catalog Number: 53349
Amount: 100μg/100μl
Swiss-Prot No. :P08253
Gene name:mmp2
Gene id:4313
Clone Number： 3A8-C1-E8
Form of Antibody: Purified mouse monoclonal in buffer containing 0.1M Tris-Glycine (pH 7.4, 150 mM NaCl) with 0.2% sodium azide, 50%,glycerol
Storage/Stability: Store at -20℃/1 year
Immunogen: Purified recombinant human MMP-2 protein fragments expressed in E.coli
Purification: affinity-chromatography
Specificity/Sensitivity: This antibody detects endogenous levels of MMP-2 and does not corss-react with related proteins
Reactivity: Human,Rat,Transfected
Applications: Predicted MW: 72kd WB: 1:1000 IF:1:50



Western blot analysis of extracts from CHO-K1 (B) and CHO-K1 transfected by MMP-2 fragment(A) cell lysates using MMP-2 mouse mAb (1:2000 diluted). Predicted band size:30KDa. Observed band size:30KDa.

Background:.
This gene is a member of the matrix metalloproteinase (MMP) gene family, that are zinc-dependent enzymes capable of cleaving components of the extracellular matrix and molecules involved in signal transduction. The protein encoded by this gene is a gelatinase A, type IV collagenase, that contains three fibronectin type II repeats in its catalytic site that allow binding of denatured type IV and V collagen and elastin. Unlike most MMP family members, activation of this protein can occur on the cell membrane. This enzyme can be activated extracellularly by proteases,or, intracellulary by its S-glutathiolation with no requirement for proteolytical removal of the pro-domain. This protein is thought to be involved in multiple pathways including roles in the nervous system, endometrial menstrual breakdown, regulation of vascularization, and metastasis. Mutations in this gene have been associated with Winchester syndrome and Nodulosis-Arthropathy-Osteolysis (NAO) syndrome. Alternative splicing results in multiple transcript variants encoding different isoforms.