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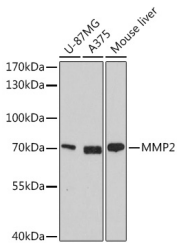
MMP2 Polyclonal Antibody

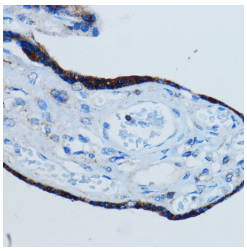
Catalog No.	E-AB-61181	**Reactivity**	H,M,R
Storage	Store at -20°C. Avoid freeze / thaw cycles.	**Host**	Rabbit
Applications	WB,IHC	**Isotype**	IgG

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Images



Western blot analysis of extracts of various cell lines using MMP2 Polyclonal Antibody at dilution of 1:1000.



Immunohistochemistry of paraffin-embedded Human placenta using MMP2 Polyclonal Antibody at dilution of 1:100 (40x lens).

Immunogen Information

Immunogen	Recombinant fusion protein of human MMP2 (NP_004521.1).
GeneID	4313
Swissprot	P08253
Synonyms	CLG4,CLG4A,MMP-2,MMP-II,MONA,TBE-1,MMP2

Product Information

Calculated MW	65kDa/68kDa/73kDa
Observed MW	73kDa
Buffer	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Purify	Affinity purification
Dilution	WB 1:500-1:2000 IHC 1:50-1:200

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.