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**Product Name: Cleaved-MMP-10 (F99) Rabbit Polyclonal Antibody****Catalog #: APRab09009**

For research use only.

**Summary**

<b>Description</b>	Rabbit polyclonal Antibody
<b>Host</b>	Rabbit
<b>Application</b>	WB,ELISA
<b>Reactivity</b>	Human,Rat,Mouse
<b>Conjugation</b>	Unconjugated
<b>Modification</b>	Unmodified
<b>Isotype</b>	IgG
<b>Clonality</b>	Polyclonal
<b>Form</b>	Liquid
<b>Concentration</b>	1mg/ml
<b>Storage</b>	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
<b>Shipping</b>	Ice bags
<b>Buffer</b>	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
<b>Purification</b>	Affinity purification

**Application**

<b>Dilution Ratio</b>	WB 1:500-1:2000,ELISA 1:20000-1:40000
<b>Molecular Weight</b>	43kDa

**Antigen Information**

<b>Gene Name</b>	MMP10
<b>Alternative Names</b>	MMP10; STMY2; Stromelysin-2; SL-2; Matrix metalloproteinase-10; MMP-10; Transin-2
<b>Gene ID</b>	4319.0
<b>SwissProt ID</b>	P09238
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from human MMP10. AA range:80-129

**Background**

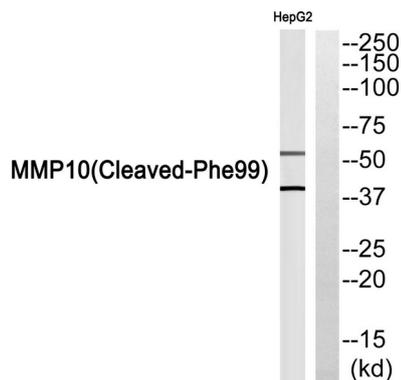
This gene encodes a member of the peptidase M10 family of matrix metalloproteinases (MMPs). Proteins in this family are

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. The encoded preproprotein is proteolytically processed to generate the mature protease. This secreted protease breaks down fibronectin, laminin, elastin, proteoglycan core protein, gelatins, and several types of collagen. The gene is part of a cluster of MMP genes on chromosome 11. [provided by RefSeq, Jan 2016],catalytic activity:Similar to stromelysin 1, but action on collagen types III, IV and V is weak.,cofactor:Binds 2 zinc ions per subunit.,cofactor:Calcium.,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, gelatins of type I, III, IV, and V; weakly collagens III, IV, and V. Activates procollagenase.,similarity:Belongs to the peptidase M10A family.,similarity:Contains 4 hemopexin-like domains,

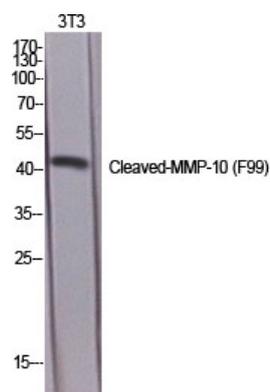
## Research Area

Angiogenesis

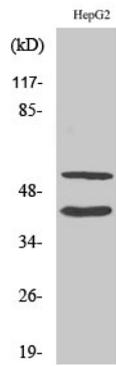
## Image Data



Western blot analysis of MMP10 (Cleaved-Phe99) Antibody. The lane on the right is blocked with the MMP10 (Cleaved-Phe99) peptide.



Western Blot analysis of various cells using Cleaved-MMP-10 (F99) Polyclonal Antibody diluted at 1 : 1000



Western Blot analysis of HepG2 cells using Cleaved-MMP-10 (F99) Polyclonal Antibody diluted at 1: 1000