

## MMP-15 Polyclonal Antibody

<b>Catalog No :</b>	YT2911
<b>Reactivity :</b>	Human;Mouse
<b>Applications :</b>	WB;IHC
<b>Target :</b>	MMP-15
<b>Fields :</b>	>>Parathyroid hormone synthesis, secretion and action
<b>Gene Name :</b>	MMP15
<b>Protein Name :</b>	Matrix metalloproteinase-15
<b>Human Gene Id :</b>	4324
<b>Human Swiss Prot No :</b>	P51511
<b>Mouse Gene Id :</b>	17388
<b>Mouse Swiss Prot No :</b>	O54732
<b>Immunogen :</b>	The antiserum was produced against synthesized peptide derived from human MMP-15. AA range:611-660
<b>Specificity :</b>	MMP-15 Polyclonal Antibody detects endogenous levels of MMP-15 protein.
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Polyclonal, Rabbit,IgG
<b>Dilution :</b>	WB 1:500-2000;IHC 1:50-300
<b>Purification :</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Concentration :</b>	1 mg/ml

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**Storage Stability :** -15°C to -25°C/1 year(Do not lower than -25°C)

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**Observed Band :** 80kD

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**Cell Pathway :** Angiogenesis

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**Background :** This gene encodes a member of the peptidase M10 family and membrane-type subfamily 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. Members of this subfamily contain a transmembrane domain suggesting that these proteins are expressed at the cell surface rather than secreted. The encoded preproprotein is proteolytically processed to generate the mature protease. This protein may play a role in cancer progression. [provided by RefSeq, Jan 2016],

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**Function :** cofactor: Binds 1 zinc ion 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: Endopeptidase that degrades various components of the extracellular matrix. May activate progelatinase A., PTM: The precursor is cleaved by a furin endopeptidase., similarity: Belongs to the peptidase M10A family., similarity: Contains 4 hemopexin-like domains., tissue specificity: Appeared to be synthesized preferentially in liver, placenta, testis, colon and intestine. Substantial amounts are also detected in pancreas, kidney, lung, heart and skeletal muscle.,

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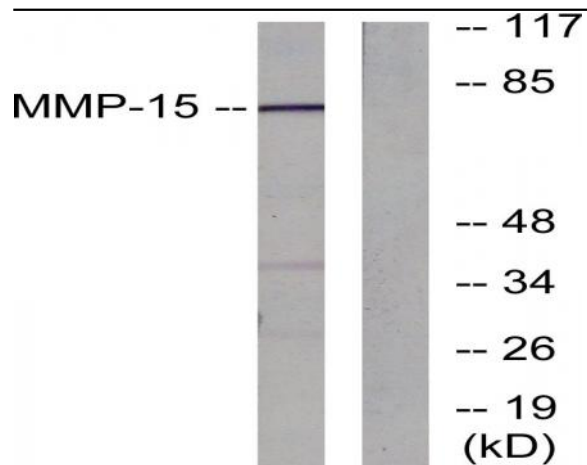
**Subcellular Location :** Membrane ; Single-pass type I membrane protein ; Extracellular side .

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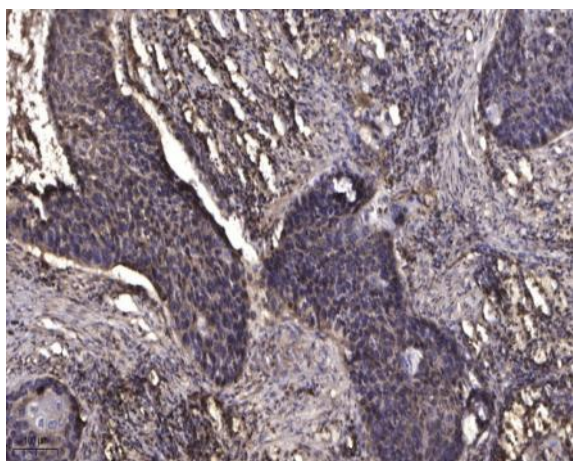
**Expression :** Appeared to be synthesized preferentially in liver, placenta, testis, colon and intestine. Substantial amounts are also detected in pancreas, kidney, lung, heart and skeletal muscle.

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## Products Images



Western blot analysis of lysates from MDA-MB-435 cells, using MMP-15 Antibody. The lane on the right is blocked with the synthesized peptide.



Immunohistochemical analysis of paraffin-embedded human Squamous cell carcinoma of lung. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 45min).