

Cleaved-MMP-15 (Y132) Polyclonal Antibody

Catalog No: YC0062

Reactivity: Human; Monkey

Applications: WB;ELISA

Target: MMP-15

Fields: >>Parathyroid hormone synthesis, secretion and action

Gene Name: MMP15

Protein Name: Matrix metalloproteinase-15

P51511

O54732

Human Gene Id: 4324

Human Swiss Prot

No:

Mouse Swiss Prot

No:

Immunogen: The antiserum was produced against synthesized peptide derived from human

MMP15. AA range:113-162

Specificity: Cleaved-MMP-15 (Y132) Polyclonal Antibody detects endogenous levels of

fragment of activated MMP-15 protein resulting from cleavage adjacent to Y132.

Formulation : Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Source: Polyclonal, Rabbit, IgG

Dilution: WB 1:500 - 1:2000. ELISA: 1:10000. Not yet tested in other applications.

Purification: The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.

Concentration: 1 mg/ml

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

1/3

Observed Band: 61kD

Cell Pathway : Angiogenesis

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],

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

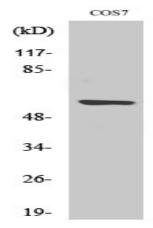
Subcellular Location : Membrane; Single-pass type I membrane protein; Extracellular side.

Expression:

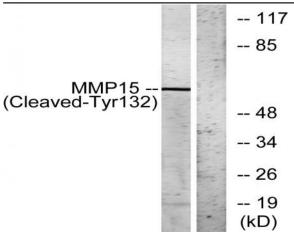
Appeared to be synthesized preferentially in liver, placenta, testis, colon and intestine. Substantial amounts are also detected in pancreas, kidney, lung, heart and skeletal muscle.

Products Images

skeletal muscle.,



Western Blot analysis of various cells using Cleaved-MMP-15 (Y132) Polyclonal Antibody



Western blot analysis of lysates from COS7 cells, treated with etoposide 25uM 1h, using MMP15 (Cleaved-Tyr132) Antibody. The lane on the right is blocked with the synthesized peptide.