

Cleaved-MMP-14 (Y112) Polyclonal Antibody

Catalog No: YC0061

Reactivity: Human; Mouse; Rat

Applications: WB;ELISA

Target: MMP-14

Fields: >>TNF signaling pathway;>>GnRH signaling pathway;>>Parathyroid hormone

synthesis, secretion and action

Gene Name: MMP14

Protein Name: Matrix metalloproteinase-14

P50281

P53690

Human Gene Id: 4323

Human Swiss Prot

No:

Mouse Gene Id: 17387

Mouse Swiss Prot

No:

Rat Gene Id: 81707

Rat Swiss Prot No: Q10739

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

MMP14. AA range:93-142

Specificity: Cleaved-MMP-14 (Y112) Polyclonal Antibody detects endogenous levels of

fragment of activated MMP-14 protein resulting from cleavage adjacent to Y112.

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: 1:20000. Not yet tested in other applications.

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

chromatography using epitope-specific immunogen.

Concentration: 1 mg/ml

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

Observed Band: 53kD

Cell Pathway: GnRH;

Background: Proteins of the matrix metalloproteinase (MMP) 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. Most MMP's are secreted as inactive proproteins which are activated when cleaved by

extracellular proteinases. However, the protein encoded by this gene is a member of the membrane-type MMP (MT-MMP) subfamily; each member of this subfamily contains a potential transmembrane domain suggesting that these proteins are expressed at the cell surface rather than secreted. This protein activates MMP2 protein, and this activity may be involved in tumor invasion. [provided by RefSeq.

Jul 2008],

Function: catalytic activity: Endopeptidase activity. Activates progelatinase A by cleavage

> of the propeptide at 37-Asn-|-Leu-38. Other bonds hydrolyzed include 35-Gly-|-lle-36 in the propertide of collagenase 3, and 341-Asn-|-Phe-342, 441-Asp-|-Leu-442 and 354-Gln-|-Thr-355 in the aggrecan interglobular domain.,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:Seems to specifically activate progelatinase A. May thus trigger invasion by tumor cells by activating progelatinase A on the tumor cell surface.,PTM:The precursor is cleaved by a furin endopeptidase., similarity: Belongs to the peptidase M10A

family., similarity: Contains 4 hemopexin-like domains., s

Subcellular Membrane; Single-pass type I membrane protein. Melanosome. Cytoplasm. Location:

Identified by mass spectrometry in melanosome fractions from stage I to stage IV.

Forms a complex with BST2 and localizes to the cytoplasm.

Expressed in stromal cells of colon, breast, and head and neck. Expressed in **Expression:**

lung tumors.

orthogonal Tag:

Sort: 4241

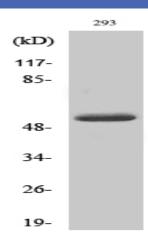


No4 :	
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Host: Rabbit

Modifications: Unmodified

Products Images



Western Blot analysis of various cells using Cleaved-MMP-14 (Y112) Polyclonal Antibody