



Cleaved-MMP-14 (Y112) Polyclonal Antibody

Catalog No	BYab-02292
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB;ELISA
Gene Name	MMP14
Protein Name	Matrix metalloproteinase-14
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
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	Western Blot: 1/500 - 1/2000. ELISA: 1/20000. Not yet tested in other applications.
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	MMP14; Matrix metalloproteinase-14; MMP-14; MMP-X1; Membrane-type matrix metalloproteinase 1; MT-MMP 1; MTMMP1; Membrane-type-1 matrix metalloproteinase; MT1-MMP; MT1MMP
Observed Band	53kD
Cell Pathway	Membrane ; Single-pass type I membrane protein . Melanosome. Cytoplasm. Identified by mass spectrometry in melanosome fractions from stage I to stage IV. Forms a complex with BST2 and localizes to the cytoplasm.
Tissue Specificity	Expressed in stromal cells of colon, breast, and head and neck. Expressed in lung tumors.
Function	catalytic activity:Endopeptidase activity. Activates progelatinase A by cleavage of the propeptide at 37-Asn- -Leu-38. Other bonds hydrolyzed include 35-Gly- -Ile-36 in the propeptide 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

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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

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],

matters needing attention

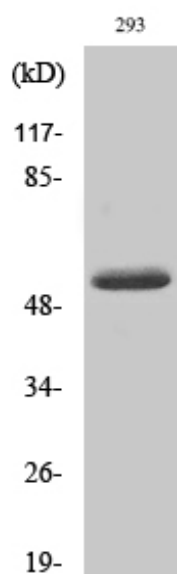
Avoid repeated freezing and thawing!

Usage suggestions

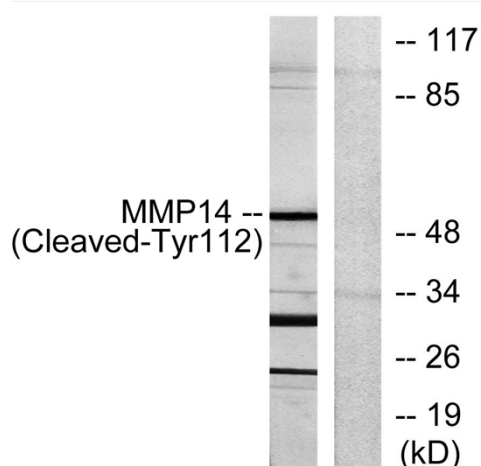
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



Products Images



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



Western blot analysis of lysates from 293 cells, treated
with etoposide 25uM 1h, using MMP14
(Cleaved-Tyr112) Antibody. The lane on the right is
blocked with the synthesized peptide.

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