ELK Biotechnology

Cleaved-MMP-14 (Y112) rabbit pAb

Cat No.:ES1044

For research use only

Overview

Product Name	Cleaved-MMP-14 (Y112) rabbit pAb
Host species	Rabbit
Applications	WB;ELISA
Species Cross-Reactivity	Human;Mouse;Rat
Recommended dilutions	Western Blot: 1/500 - 1/2000. ELISA: 1/20000. Not yet tested in other applications.
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.
Storage	Store at -20°C. Avoid repeated freeze-thaw cycles.
Protein Name	Matrix metalloproteinase-14
Gene Name	MMP14
Cellular localization	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.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Clonality	Polyclonal
Concentration	1 mg/ml
Observed band	53kD
Human Gene ID	4323
Human Swiss-Prot Number	P50281
Alternative Names	MMP14; Matrix metalloproteinase-14; MMP-14; MMP-X1; Membrane-type matrix metalloproteinase 1; MT-MMP 1; MTMMP1; Membrane-type-1 matrix

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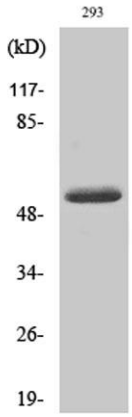
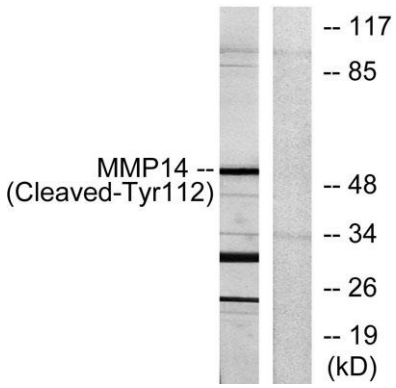
Background

metalloproteinase; MT1-MMP; MT1MMP
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],



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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