



Rabbit Anti-Human MMP14 polyclonal antibody (CABT-L1796)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Specificity	This antibody may react with (Predicted by homology) : Bovine, Mouse, Rabbit, Rat
Target	MMP14
Immunogen	Synthetic peptide derived from internal region of human MMP-14 protein.
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human
Purification	Immunoaffinity purified
Conjugate	Unconjugated
Applications	IHC-P
Molecular Weight	~66 kDa (Latent) and ~54 kDa (Active)
Cellular Localization	Cytoplasm
Positive Control	Breast Carcinoma, Placenta
Format	Liquid
Buffer	PBS, 1% BSA, pH 7.6
Preservative	< 0.1% Sodium Azide
Storage	2-8°C. Do not freeze. The user must validate any other storage conditions. When properly

stored, the reagent is stable to the date indicated on the label. Do not use the reagent beyond the expiration date.

BACKGROUND

Introduction

MMPs are a group of enzymes involved in matrix degradation. Of the sixteen members of the matrix metalloproteinase family, ten exist in soluble form whereas MT-MMPs exist as integral membrane proteins. MT1-MMP, MT2-MMP, MT3-MMP also known as MMP14, MMP15, MMP16 respectively, contain a C-terminal transmembrane domain anchoring them to the cell surface. They have an 8 amino acid insert in their catalytic domain. MT1-MMP cleaves procollagenase A (MMP-2) and procollagenase B to their active forms. MT1-MMP gets activated through the membrane plasmin cascade. It binds to TIMP-2 first and then to MMP-2 forming a trimer. It cleaves the pro-MMP-2 to its active form.

Keywords

MMP14;matrix metalloproteinase 14 (membrane-inserted) ;MMP-14;MMP-X1;MT-MMP;MT1MMP;MTMMP1;WNCHRS;MT1-MMP;MT-MMP 1;matrix metalloproteinase-14;membrane type 1 metalloprotease;membrane-type-1 matrix metalloproteinase;KD014

GENE INFORMATION

Entrez Gene ID

[4323](#)

UniProt ID

[P50281](#)
