

## 10-6530: Mouse Monoclonal Antibody to MMP14 (C-term)(Clone: 133CT15.10.5.1)(Discontinued)

<b>Clonality :</b>	Monoclonal
<b>Clone Name :</b>	133CT15.10.5.1
<b>Application :</b>	WB,IF
<b>Reactivity :</b>	Human
<b>Gene :</b>	MMP14
<b>Gene ID :</b>	4323
<b>Uniprot ID :</b>	P50281
<b>Format :</b>	Purified
<b>Alternative Name :</b>	Matrix metalloproteinase-14, MMP-14, MMP-X1, Membrane-type matrix metalloproteinase 1, MT-MMP 1, MTMMP1, Membrane-type-1 matrix metalloproteinase, MT1-MMP, MT1MMP, MMP14
<b>Isotype :</b>	Mouse IgM
<b>Immunogen Information :</b>	Synthetic Peptide

### Description

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.

### Product Info

<b>Amount :</b>	80 µl / 400 µl
<b>Content :</b>	Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Euglobin precipitation followed by dialysis against PBS.
<b>Storage condition :</b>	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term store at -20°C in small aliquots to prevent freeze-thaw cycles.

### Application Note

WB~1:100~1000|| IF~1:10~50

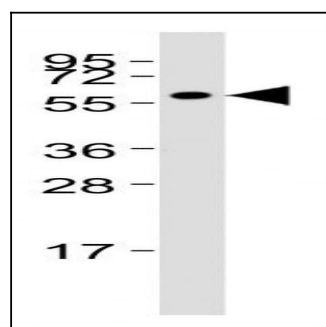


Figure 1: Anti-MMP14 Antibody (10-6530) at 1:1000 dilution + HT-1080 whole cell lysates/proteins at 20 µg per lane. Secondary Goat Anti-mouse IgG, (H+L), Peroxidase conjugated at 1/10000 dilution Predicted band size : 66 kDa.

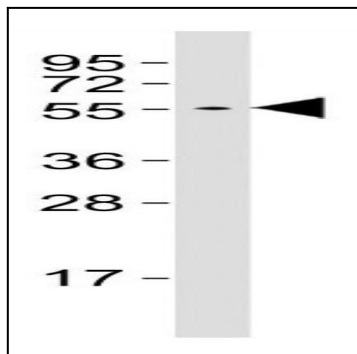


Figure 2: Anti-MMP14 Antibody (10-6530) at 1:500 dilution + A2058 whole cell lysates/proteins at 20  $\mu$ g per lane. Secondary Goat Anti-mouse IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 66 kDa.

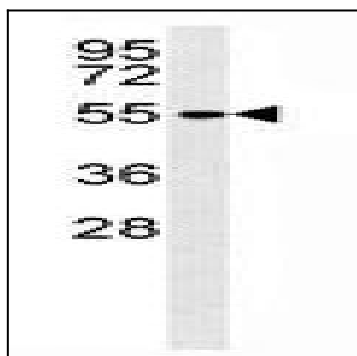


Figure 3: Western blot analysis of MMP14 Monoclonal Antibody (10-6530) in A2058 cell line lysates (35  $\mu$ g/lane). This demonstrates the MMP14 antibody detected the MMP14 protein (8  $\mu$ g/ml).

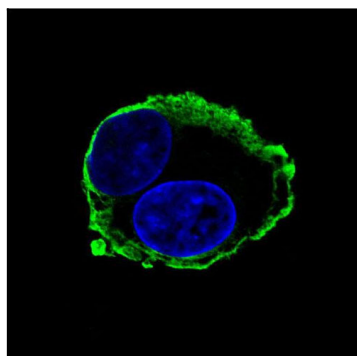


Figure 4: Confocal immunofluorescent analysis of MMP14 Antibody (10-6530 ) with HepG2 cell followed by Alexa Fluor® 488-conjugated goat anti-mouse IgG (green). DAPI was used to stain the cell nuclear (blue).