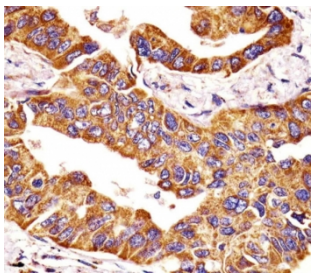
MMP14 Antibody (F54844)

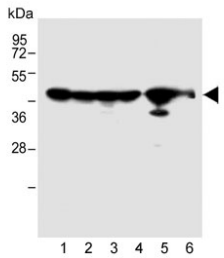
Catalog No.	Formulation	Size
F54844-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F54844-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

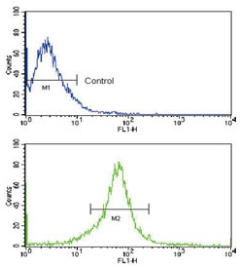
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity purified
UniProt	P50281
Localization	Cytoplasmic
Applications	Western Blot : 1:500-1:1000 Flow Cytometry : 1:10-1:50 (1x10e6 cells) Immunohistochemistry (FFPE) : 1:25
Limitations	This MMP14 antibody is available for research use only.



IHC testing of FFPE human lung adenocarcinoma tissue with MMP14 antibody. HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to staining.



Western blot testing of 1) human A2058, 2) human HT-1080, 3) human MCF-7, 4) human NCI-H292, 5) mouse kidney and 6) rat kidney tissue lysate with MMP14 antibody. Predicted molecular weight ~66 kDa (pro form), ~54 kDa (active form), ~44 kDa (inactive form).



Flow cytometry testing of human MCF7 cells with MMP14 antibody; Blue=isotype control, Green= MMP14 antibody.

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 MMPs are secreted as inactive proproteins which are activated when cleaved by extracellular proteinases. MMP14 seems to specifically activate progelatinase A, and may thus trigger invasion by tumor cells by activating progelatinase A on the tumor cell surface. Expression is significant in stromal cells of colon, breast, and head and neck.

Application Notes

The stated application concentrations are suggested starting points. Titration of the MMP14 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 145-174 from the human protein was used as the immunogen for the MMP14 antibody.

Storage

Aliquot the MMP14 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.