

Anti-MMP14 Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

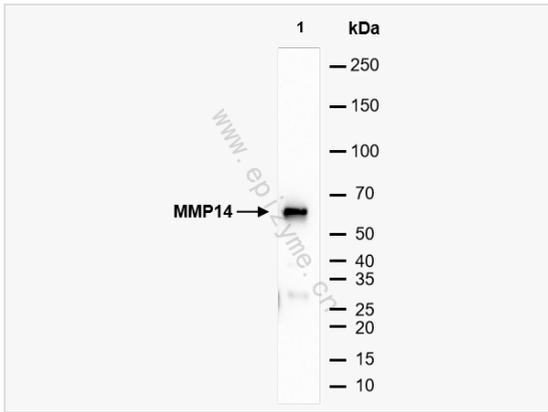
Catalog # R014128

Product Information

Application	IF (Cell)/ICC, IHC-P/IF (Tissue-P), ELISA, WB
Reactivity	Human
Dilution	WB 1:1,000~1:2,000; IHC-P 1:100~1:200; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	41S42M67
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human MMP14
Format	Affinity purified monoclonal antibody supplied in PBS with 0.01% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-MMP14 Rabbit mAb [41S42M67] is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Synonyms	Matrix metalloproteinase 14 (membrane inserted), Matrix metalloproteinase 14, Matrix metalloproteinase-14, Membrane type 1 matrix metalloproteinase, Membrane type 1 metalloproteinase, Membrane type matrix metalloproteinase 1, Membrane-type matrix metalloproteinase 1, Membrane-type-1 matrix metalloproteinase, MMP 14, MMP X1, MMP-14, MMP-X1, Mmp14, MMP14_HUMAN, MMPX1, MT MMP 1, MT-MMP 1, MT1 MMP, MT1-MMP, MT1MMP, MTMMP 1, MTMMP1.
Calculated MW	Calculated MW: 66 kDa; Observed MW: 66 kDa
Uniprot ID	P50281
Gene ID	4323
Background	MMP14 Seems to specifically activate progelatinase A. May thus trigger invasion by tumor cells by activating progelatinase A on the tumor cell surface. Belongs to the peptidase M10A family.
Cellular Location	Membrane. Melanosome. Identified by mass spectrometry in melanosome fractions from stage I to stage IV.
Tissue Location	Expressed in stromal cells of colon, breast, and head and neck. Expressed in lung tumors.



Western Blot - Anti-MMP14 Rabbit mAb [41S42M67]

All lanes: R014128 at 1:1,000 dilution

Lane 1: T24 (Human bladder cancer epithelial cell) whole cell lysates

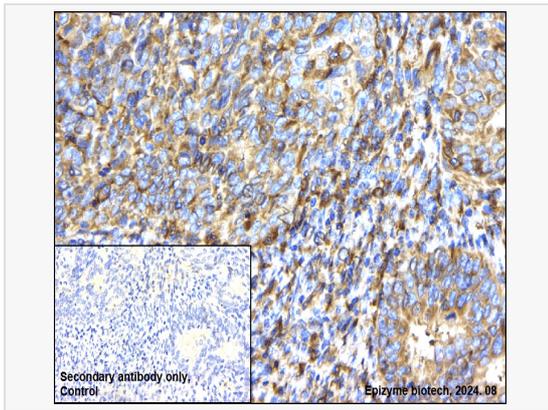
Lysates/proteins at 10 µg per lane.

Secondary antibody: Goat Anti-Rabbit IgG(H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution

Predicted band size: 66 kDa

Observed band size: 66 kDa

Developed using the ECL technique (Cat. No. SQ201).



Immunohistochemistry - Anti-MMP14 Rabbit mAb [41S42M67]

Sample: Paraformaldehyde-fixed, paraffin embedded human endometrial carcinoma tissue

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.

Primary antibody: R014128 at 1:200 dilution

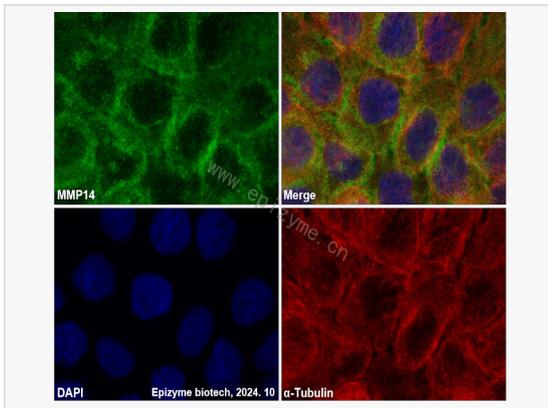
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution

DAB was used as the chromogen.

Counter stained with hematoxylin.

Positive/negative staining were presented.

Only the secondary antibody was used as the negative control.



Immunofluorescence - Anti-MMP14 Rabbit mAb [41S42M67]

Sample: A431 cells

The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.5% Triton X-100 for 10 minutes and then blocked with 5% BSA in 0.1% PBS-Tween for 0.5 hours.

Primary antibodies: R014128 at 1:100 dilution and α-tubulin Mouse Monoclonal Antibody (Cat. No. LF209) at 1:100 dilution

Secondary antibodies: Goat anti-Rabbit (488) at 1:1,000 dilution (shown in green) and Goat anti-Mouse (555) at 1:1,000 dilution (shown in red)

Nuclei were stained with DAPI (shown in blue).