

Anti-TIMP-1 Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

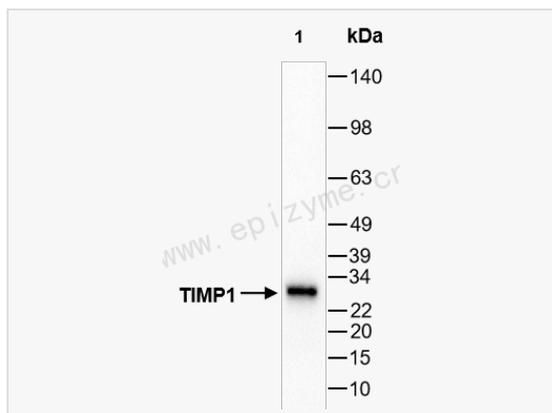
Catalog # R014961

Product Information

Application	WB, IF (Cell)/ICC, ELISA
Reactivity	Human
Dilution	WB 1:1,000~1:2,000; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	73K59Q84
Isotype	IgG
Label	Unconjugated
Immunogen	Recombinant protein of mouse TIMP1
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-TIMP-1 Rabbit mAb [73K59Q84] is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Synonyms	Clgi, Collagenase inhibitor, Collagenase inhibitor, Human, EPA, EPO, Erythroid Potentiating Activity, Erythroid-potentiating activity, Fibroblast collagenase inhibitor, FLJ90373, HCI, Human Collagenase Inhibitor, Metalloproteinase inhibitor 1, Metalloproteinase inhibitor 1 precursor, OTTHUMP00000023214, TIMP 1, TIMP, TIMP metalloproteinase inhibitor 1, TIMP-1, Timp1, TIMP1 protein, TIMP1_HUMAN, Tissue Inhibitor of Metalloproteinase 1, Tissue inhibitor of metalloproteinases 1, Tissue inhibitor of metalloproteinases, Tissue inhibitor of metalloproteinase 1 erythroid potentiating activity collagenase inhibitor.
Calculated MW	Calculated MW: 23 kDa; Observed MW: 26 kDa
Uniprot ID	P12032
Gene ID	21857
Background	Metalloproteinase inhibitor that functions by forming one to one complexes with target metalloproteinases, such as collagenases, and irreversibly inactivates them by binding to their catalytic zinc cofactor. Acts on MMP1, MMP2, MMP3, MMP7, MMP8, MMP9, MMP10, MMP11, MMP12, MMP13 and MMP16. Does not act on MMP14 (By similarity). Also functions as a growth factor that regulates cell differentiation, migration and cell death and activates cellular signaling cascades via CD63 and ITGB1. Plays a role in integrin signaling.
Cellular Location	Secreted.



Western Blot - Anti-TIMP-1 Rabbit mAb [73K59Q84]

All lanes: R014961 at 1:1,000 dilution

Lane 1: C2C12 (Mouse myoblasts epithelial cell) whole cell lysates

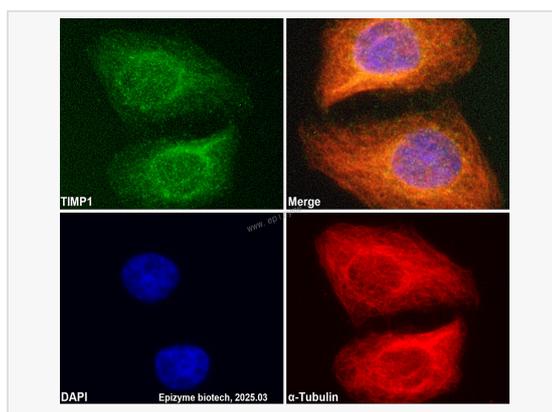
Lysates/proteins at 10 μ g per lane.

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

Predicted band size: 23 kDa

Observed band size: 26 kDa

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



Immunofluorescence - Anti-TIMP-1 Rabbit mAb [73K59Q84]

Sample: HeLa 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: R014961 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).