

Product Datasheet

TIMP-1 Antibody (F31 P2 A5) NB100-74551

Unit Size: 100 ug

Store at -20C. Avoid freeze-thaw cycles.

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NB100-74551

TIMP-1 Antibody (F31 P2 A5)

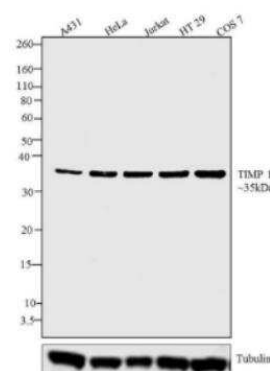
| Product Information | |
|---------------------|--|
| Unit Size | 100 ug |
| Concentration | 1 mg/ml |
| Storage | Store at -20C. Avoid freeze-thaw cycles. |
| Clonality | Monoclonal |
| Clone | F31 P2 A5 |
| Preservative | 0.05% Sodium Azide |
| Isotype | IgG1 |
| Purity | Protein A purified |
| Buffer | PBS with 1 mg/ml BSA |

| Product Description | |
|-------------------------|--|
| Host | Mouse |
| Gene ID | 7076 |
| Gene Symbol | TIMP1 |
| Species | Human, Mouse, Rat, Monkey |
| Reactivity Notes | Rhesus monkey. Mouse reactivity reported in scientific literature (PMID: 19188864). Rat reactivity reported in scientific literature (PMID: 28275350). |
| Specificity/Sensitivity | TIMP-1 (F31 P2 A5) |
| Immunogen | Synthetic peptide corresponding to residues F(72) Q A L G D A A D I R(82) of mouse TIMP-1. |

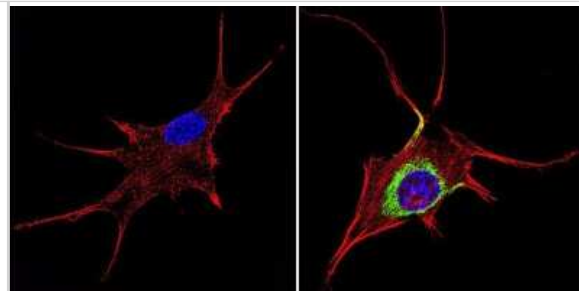
| Product Application Details | |
|-----------------------------|--|
| Applications | Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/Immunofluorescence, Immunohistochemistry |
| Recommended Dilutions | Western Blot 1:250 - 1:1000, Immunohistochemistry 1:20, Immunocytochemistry/Immunofluorescence 1 - 2 ug/ml, Immunohistochemistry-Paraffin 1:10 - 1:100 |

Images

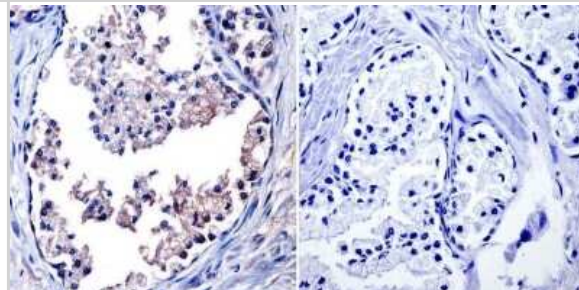
Western Blot: TIMP-1 Antibody (F31 P2 A5) [NB100-74551] - Analysis was performed on whole cell extracts (30 ug lysate) of A431 (Lane 1), HeLa (Lane 2), Jurkat (Lane 3), HT29 (Lane 4) and COS-7 (Lane 5). The blots were probed with Anti-TIMP1 Mouse .



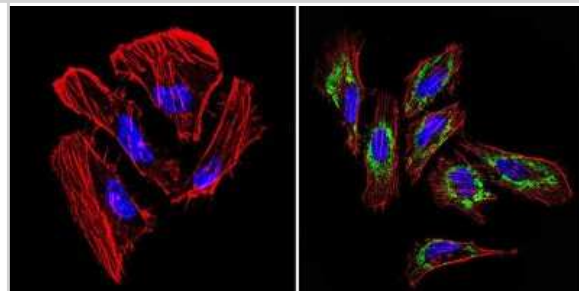
Immunocytochemistry/Immunofluorescence: TIMP-1 Antibody (F31 P2 A5) [NB100-74551] - Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes at room temperature and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with a TIMP1 Monoclonal Antibody (F31 P2 A5) at a dilution of 1:20 and incubated overnight in a humidified chamber. Cells were washed with PBST and incubated with a DyLight-conjugated secondary antibody for 45 minutes at room temperature in the dark. F-actin (red) was stained with a fluorescent phalloidin and nuclei (blue) were stained with DAPI.



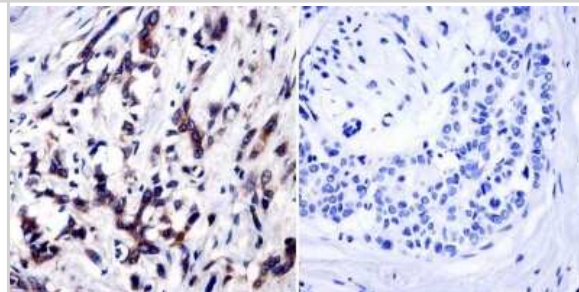
Immunohistochemistry-Paraffin: TIMP-1 Antibody (F31 P2 A5) [NB100-74551] - Normal biopsies of deparaffinized Human prostate tissue at a dilution of 1:20.



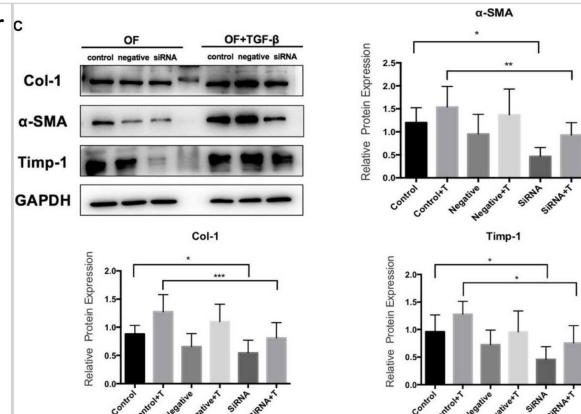
Immunocytochemistry/Immunofluorescence: TIMP-1 Antibody (F31 P2 A5) [NB100-74551] - Analysis of TIMP1 (green) in Hela cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes at room temperature and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with a TIMP1 Monoclonal Antibody (F31 P2 A5) at a dilution of 1:100 and incubated overnight in a humidified chamber. Cells were washed with PBST and incubated with a DyLight-conjugated secondary antibody for 45 minutes at room temperature in the dark. F-actin (red) was stained with a fluorescent phalloidin and nuclei (blue) were stained with DAPI. Images were taken at a 60X magnification.



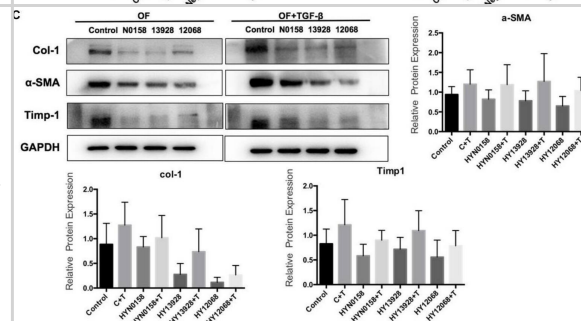
Immunohistochemistry-Paraffin: TIMP-1 Antibody (F31 P2 A5) [NB100-74551] - Cancer biopsies of deparaffinized Human breast carcinoma tissue at a dilution of 1:20.



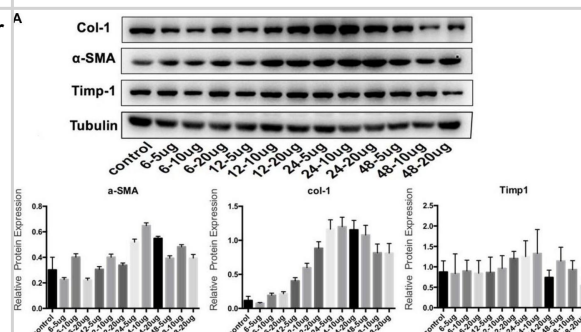
TGF- β 1 induces the transformation from OF to MFB. (A) Western blot for TGF- β 1 concentration and time; (B) Src and Acta2 expression in SRC gene knockdown group by q-PCR; and (C) the expression levels of α -SMA, Col-1, and Timp-1 in the SRC gene knockdown group by Western blot. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/32457885>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Signaling inhibitors. (A) Acta2 expression after Signaling inhibitors by q-PCR; (B) the expression of Smad3, Nfkb1, Pik3r1, and Akt1 in the SRC gene knockdown group by q-PCR; (C) the expression of α -SMA, Col-1, and Timp-1 after Signaling inhibitors by western blot; (D) the phosphorylation of SMAD2/3, NF- κ B p65 and PI3K p85 proteins in SRC gene knockdown group by western blot. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/32457885>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



TGF- β 1 induces the transformation from OF to MFB. (A) Western blot for TGF- β 1 concentration and time; (B) Src and Acta2 expression in SRC gene knockdown group by q-PCR; and (C) the expression levels of α -SMA, Col-1, and Timp-1 in the SRC gene knockdown group by Western blot. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/32457885>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Cao YL, Chen WL, Lei Q et al. The transplantation of rapamycin-treated senescent human mesenchymal stem cells with enhanced proangiogenic activity promotes neovascularization and ischemic limb salvage in mice *Acta pharmacologica Sinica* 2022-04-01 [PMID: 35365781] (WB, Human)

Wu Y, Lu S, Huang X et al. Targeting cIAPs attenuates CCl4-induced liver fibrosis by increasing MMP9 expression derived from neutrophils *Life sciences* 2022-01-15 [PMID: 34914932] (WB, Mouse)

Hao M, Sun J, Zhang Y et al. Exploring the Role of SRC in Extraocular Muscle Fibrosis of the Graves' Ophthalmopathy *Front Bioeng Biotechnol* 2020-05-08 [PMID: 32457885] (WB, Mouse)

Jurga AM, Piotrowska A, Makuch W et al. Blockade of P2X4 Receptors Inhibits Neuropathic Pain-Related Behavior by Preventing MMP-9 Activation and, Consequently, Pronociceptive Interleukin Release in a Rat Model. *Front Pharmacol.* 2017-03-09 [PMID: 28275350] (WB, Rat)



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Products Related to NB100-74551

| | |
|------------------|--|
| NBL1-16924 | TIMP-1 Overexpression Lysate |
| HAF007 | Goat anti-Mouse IgG Secondary Antibody [HRP] |
| NB7539 | Goat anti-Mouse IgG (H+L) Secondary Antibody [HRP] |
| NBP1-97005-0.5mg | Mouse IgG1 Isotype Control (MG1) |

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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