

# TIMP1 Monoclonal Antibody (102D1)

Product Details	
Size	500 µL
Species Reactivity	Human, Mouse
Published Species	Mouse, Human
Host/Isotype	Mouse / IgG1
Class	Monoclonal
Type	Antibody
Clone	102D1
Conjugate	Unconjugated
Immunogen	Recombinant human TIMP-1
Form	Liquid
Concentration	0.2 mg/mL
Purification	Protein G
Storage buffer	PBS, pH 7.4, with 0.2% BSA
Contains	0.09% sodium azide
Storage conditions	4° C
RRID	AB_11004132

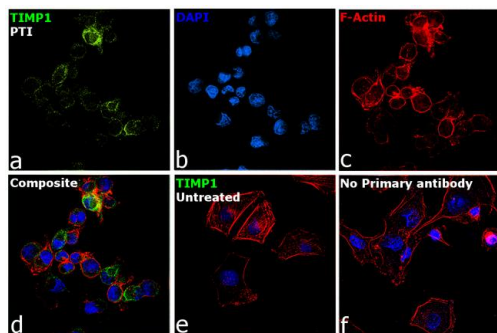
Applications	Tested Dilution	Publications
Western Blot (WB)	1:50-1:100	8 Publications
Immunohistochemistry (IHC)	-	26 Publications
Immunohistochemistry (Paraffin) (IHC (P))	1:100	2 Publications
Immunocytochemistry (ICC/IF)	2-3 µg/mL	2 Publications
Neutralization (Neu)	-	1 Publication

## Product Specific Information

MA5-13688 targets TIMP-1 in IHC (P) and WB applications and shows reactivity with Human samples.

The MA5-13688 immunogen is recombinant human TIMP-1.

## Product Images For TIMP1 Monoclonal Antibody (102D1)

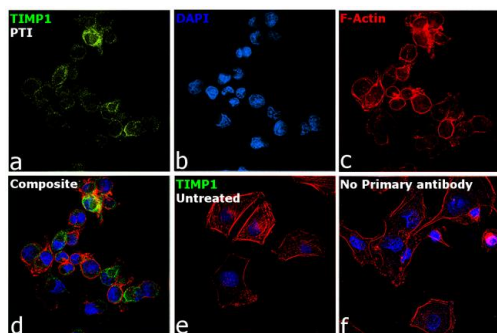


### TIMP1 Antibody (MA5-13688)

Altered expression of target protein upon cell treatment demonstrates antibody specificity. Immunofluorescence analysis using Anti-TIMP1 Monoclonal Antibody (Product # MA5-13688) shows increased expression of protein upon treatment with PTI in MDA-MB-231 cells. {RE}

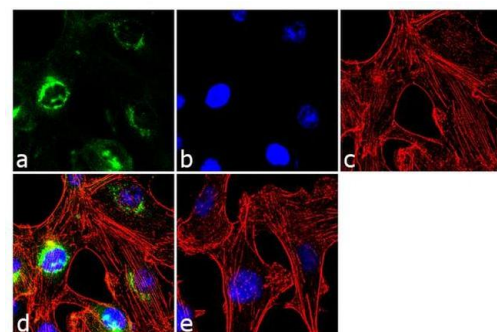
### TIMP1 Antibody (MA5-13688) in ICC/IF

Immunofluorescence analysis of TIMP1 was performed using 70% confluent log phase MDA-MB-231 cells treated with Protein Transport Inhibitor (PTI; 1x for 4 hours). The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 15 minutes, and blocked with 2% BSA for 1 hour at room temperature. The cells were labeled with TIMP1 Monoclonal Antibody (Product # MA5-13688) at 3µg/mL dilution in 0.1% BSA, incubated at 4 degree Celsius overnight and then labeled with Donkey anti-Mouse IgG (H+L) Highly Cross-Adsorbed Secondary Antibody, Alexa Fluor Plus 488 (Product # A32766) at a dilution of 1:2000 for 45 minutes at room temperature (Panel a: green). Nuclei (Panel b: blue) were stained with SlowFade® Gold Antifade Mountant with DAPI (Product # S36938). F-actin (Panel c: red) was stained with Rhodamine Phalloidin (Product # R415, 1:300). Panel d represents the merged image showing increased TIMP1 expression and localization to golgi and cytoplasm upon treatment with PTI. Panel e shows untreated cells with lower expression of TIMP1. Panel f represents control cells with no primary antibody to assess background. The images were captured at 60X magnification.



### TIMP1 Antibody (MA5-13688) in ICC/IF

Immunofluorescence analysis of TIMP1 was performed using 70% confluent log phase MDA-MB-231 cells. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 10 minutes, and blocked with 2% BSA for 1 hour at room temperature. The cells were labeled with TIMP-1 (102D1) Mouse Monoclonal Antibody (Product # MA5-13688) at 2 µg/mL in 0.1% BSA and incubated for 3 hours at room temperature and then labeled with Goat anti-Mouse IgG (H+L) Superclonal™ Secondary Antibody, Alexa Fluor® 488 conjugate (Product # A28175) a dilution of 1:2000 for 45 minutes at room temperature (Panel a: green). Nuclei (Panel b: blue) were stained with SlowFade® Gold Antifade Mountant with DAPI (Product # S36938). F-actin (Panel c: red) was stained with Alexa Fluor® 555 Rhodamine Phalloidin (Product # R415, 1:300). Panel d represents the merged image showing cytoplasmic localization. Panel e shows the no primary antibody control. The images were captured at 60X magnification.



[View more figures on thermofisher.com](https://www.thermofisher.com)

39 References

Western Blot (8)

## Stem cell research & therapy

### Pulsed focused ultrasound enhances the therapeutic effect of mesenchymal stromal cell-derived extracellular vesicles in acute kidney injury.

"Published figure using TIMP1 monoclonal antibody (Product # MA5-13688) in Western Blot"

Authors: Ullah M,Liu DD,Rai S,Razavi M,Concepcion W,Thakor AS

**Species**  
Mouse  
Not Applicable

**Dilution**  
1:200  
Not Cited

**Year**  
2020

## Cell

### Cancer Burden Is Controlled by Mural Cell-3-Integrin Regulated Crosstalk with Tumor Cells.

"MA5-13688 was used in Western Blot to investigate if mural cells can control tumor growth via paracrine signals regulated by 3-integrin."

Authors: Wong PP,Muñoz-Félix JM,Hijazi M,Kim H,Robinson SD,De Luxán-Delgado B,Rodríguez-Hernández I,Maiques O,Meng YM,Meng Q,Bodrug N,Dukinfield MS,Reynolds LE,Elia G,Clear A,Harwood C,Wang Y,Campbell JJ,Singh R,Zhang P,Schall TJ,Matchett KP,Henderson NC,Szlosarek PW,Dreger SA,Smith S,Jones JL,Gribben JG,Cutillas PR,Meier P,Sanz-Moreno V,Hodivala-Dilke KM

**Species**  
Human

**Dilution**  
Not Cited

**Year**  
2020

[View more WB references on thermofisher.com](#)

## Immunohistochemistry (26)

### Frontiers in immunology

### MAPKAP Kinase-2 Drives Expression of Angiogenic Factors by Tumor-Associated Macrophages in a Model of Inflammation-Induced Colon Cancer.

"MA5-13688 was used in Immunohistochemistry to identify a role for MK2-dependent regulation of the well-known pro-angiogenesis factor CXCL-12/SDF-1 secreted by tumor associated-macrophages, in addition to MK2-dependent regulation of Serpin-E1/PAI-1 by several cell types within the tumor microenvironment."

Authors: Suarez-Lopez L,Kong YW,Sriram G,Patterson JC,Rosenberg S,Morandell S,Haigis KM,Yaffe MB

**Species**  
Mouse

**Dilution**  
1:100

**Year**  
2021

### Applied immunohistochemistry & molecular morphology : AIMM

### The Predictive and Prognostic Role of Topoisomerase II and Tissue Inhibitor of Metalloproteinases 1 Expression in Locally Advanced Breast Carcinoma of Egyptian Patients Treated With Anthracycline-based Neoadjuvant Chemotherapy.

"MA5-13688 was used in immunohistochemistry to determine the prognostic and predictive role of topoisomerase IIalpha and tissue inhibitor of metalloproteinases 1 in patient with locally advanced breast cancer after anthracycline-based neoadjuvant chemotherapy"

Authors: El Rebey HS,Aiad HA,Abulkheir IL,Asaad NY,El-Wahed MM,Abulkasem FM,Mahmoud SF

**Species**  
Human

**Dilution**  
Not Cited

**Year**  
2016

[View more IHC references on thermofisher.com](#)

## More applications with references on thermofisher.com

IHC (P) (2)

ICC/IF (2)

Neu (1)

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