

ABfinity™ TIMP4 Recombinant Rabbit Monoclonal Antibody

Store at 2°C to 8°C (short-term), or -20°C (long-term)

Catalog Number 701317

Pub. No. MAN0007534 Rev. 1.00

| | | | |
|-------------------------------|--------------------------------|------------------------------------|---------------------------------|
| Clonality: Monoclonal | Quantity: 100 µg | Volume: 200 µL | Concentration: 0.5 mg/mL |
| Host/Class: Rabbit IgG | Reactivity: Human TIMP4 | Predicted Reactivity: Human | |

Product Description

Tissue inhibitor of metalloproteinase 4 (TIMP4) is a member of the tissue inhibitor of metalloproteinases gene family. It functions to inhibit the activity of matrix metalloproteinases (MMP) which degrade components of the extracellular matrix. TIMP4 binds irreversibly to zinc-dependent MMPs, and inactivates them by binding to their catalytic zinc cofactor. Other functions of TIMP4 include platelet recruitment and aggregation, and nervous system development. In humans, the gene encoding TIMP4 is located on chromosome 3.

Product Specifications

| | |
|-------------------------------|---|
| Immunogen: | Folded protein domain corresponding to amino acids of Human TIMP4 |
| Apparent MW: | ~ 25 kDa |
| Gene ID: | 7079 |
| Protein Accession No.: | Q99727 |
| Sequence Identity: | Human |
| Isotype: | IgG ₁ |
| Lot: | See product label |

Product Applications

| Application | Species | Test Material | Concentration |
|----------------------|---------|------------------|--|
| Western blotting | Human | MDA-MB-231 cells | 2-3 µg/mL |
| Indirect ELISA | Human | HeLa lysate | 0.5 × 10 ⁻³ to 10 µg/mL |
| Immunocyto-chemistry | Human | U2OS cells | 1 µg/mL |
| Flow cytometry | Human | HeLa cells | 1 µg/mL for 1 × 10 ⁻⁶ cells |

Storage and handling

Store the antibody at 2°C to 8°C for up to 1 month, or -20°C for long storage. Avoid repeated freezing and thawing.

Stability

When stored as instructed, expires one year from date of receipt unless otherwise indicated on product label.

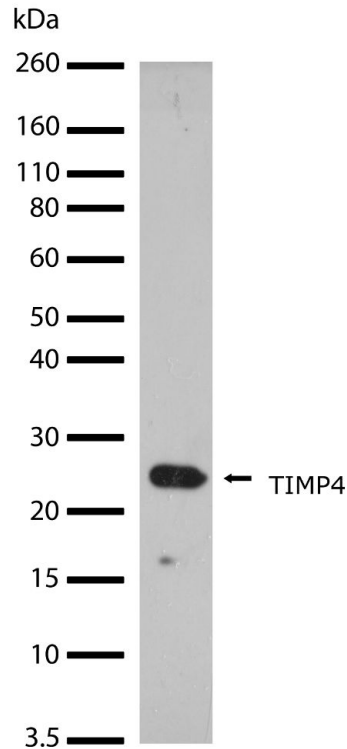


Figure 1 Western blot analysis of ABfinity™ TIMP4 Recombinant Rabbit Monoclonal Antibody (Cat. no. 701317).

Western blot analysis was performed on MDA-MB-231 whole cell extracts. Endogenous level of TIMP4 was detected at ~25 kDa using ABfinity™ TIMP4 Recombinant Rabbit Monoclonal Antibody at a concentration of 2 µg/mL. The blot was developed using enhanced chemiluminescence (ECL) method.

Storage Buffer

Phosphate buffered saline (PBS) with 0.09% sodium azide.



CAUTION! Sodium azide is extremely toxic and may react with lead and copper plumbing to form highly explosive metal azides. Properly dispose of solutions containing sodium azide. Read the Safety Data Sheet (SDS) and follow the handling instructions. Wear appropriate protective eyewear, clothing and gloves. SDSs are available at www.lifetechnologies.com/support.

Limited product warranty

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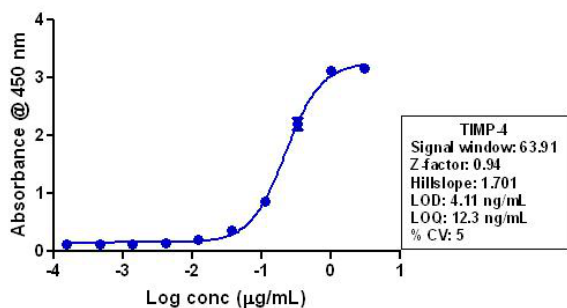


Figure 2 Indirect ELISA of ABfinity™ TIMP4 Recombinant Rabbit Monoclonal Antibody [Cat. no. 701317].

Indirect ELISA was performed using various dilutions of ABfinity™ TIMP4 Recombinant Rabbit Monoclonal Antibody to detect endogenous TIMP4 in HeLa lysate, coated onto the plate. A non-linear regression analysis was performed (4 PL), LOD, and LOQ for the antibody was determined.

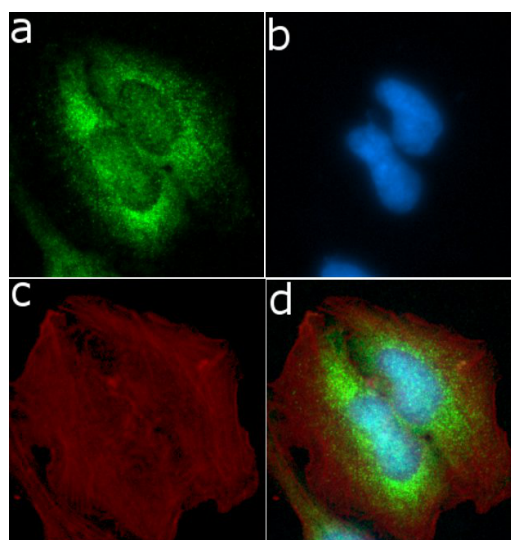


Figure 3 Immunocytochemistry analysis of ABfinity™ TIMP4 Recombinant Rabbit Monoclonal Antibody [Cat. no. 701317].

Immunocytochemistry analysis of U2OS cells stained with ABfinity™ TIMP4 Recombinant Rabbit Monoclonal Antibody using **a**: Alexa Fluor® 488 goat anti-rabbit as a secondary antibody (green). **b**: DAPI stained U2OS nuclei (blue). **c**: Actin stained with Alexa Fluor® 594 phalloidin (red). **d**: Composite image of cells showing cytoplasmic localization of TIMP4.

Explanation of Symbols

| Symbol | Description | Symbol | Description | Symbol | Description |
|--------|------------------------------|--------|---|--------|-------------|
| | Manufacturer | | Catalog number | | Batch code |
| | Use by | | Temperature limitation | | |
| | Consult instructions for use | | Caution, consult accompanying documents | | |

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