

# ABfinity™ TIMP4 Recombinant Rabbit Oligoclonal Antibody

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

Catalog Number 710340

Pub. No. MAN0007541 Rev. 1.00

<b>Clonality:</b> Oligoclonal	<b>Quantity:</b> 100 µg	<b>Volume:</b> 200 µL	<b>Concentration:</b> 0.5 mg/mL
<b>Host/Class:</b> Rabbit IgG	<b>Reactivity:</b> Human TIMP4	<b>Predicted Reactivity:</b> 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

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

## Product Applications

Application	Species	Test Material	Concentration
Western blotting	Human	HeLa, HEK293, and MDA-MB-231 cells	2-3 µg/mL
Indirect ELISA	Human	HeLa lysate	0.5 × 10 <sup>-3</sup> to 10 µg/mL
Immunocytochemistry	Human	U2OS cells	1 µg/mL
Flow cytometry	Human	HeLa cells	1 µg/mL for 1 × 10 <sup>-6</sup> 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.

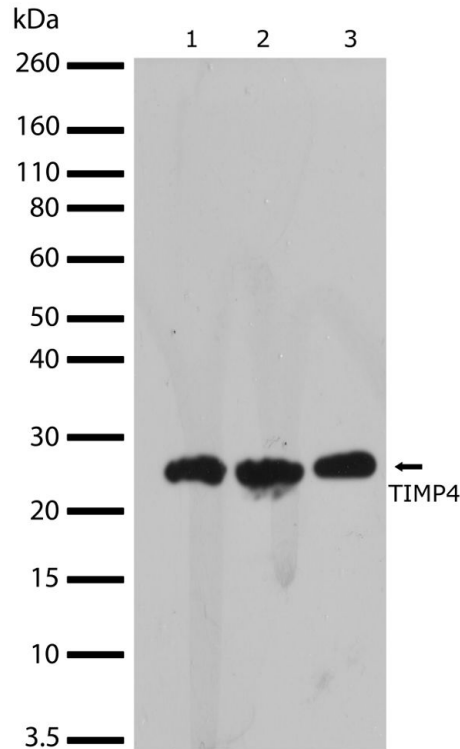


Figure 1 Western blot analysis of ABfinity™ TIMP4 Recombinant Rabbit Oligoclonal Antibody (Cat. no. 710340).

Western blot analysis was performed on HeLa, HEK293 and MDA-MB-231 whole cell extracts. Endogenous level of TIMP4 was detected at ~25 kDa using ABfinity™ TIMP4 Recombinant Rabbit Oligoclonal 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](http://www.lifetechnologies.com/support).

## Limited product warranty

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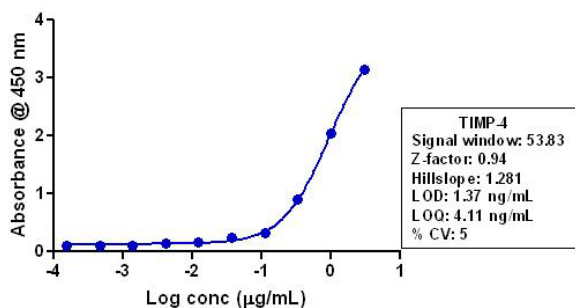


Figure 2 Indirect ELISA of ABfinity™ TIMP4 Recombinant Rabbit Oligooclonal Antibody (Cat. no. 710340).

Indirect ELISA was performed using various dilutions of ABfinity™ TIMP4 Recombinant Rabbit Oligooclonal 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.

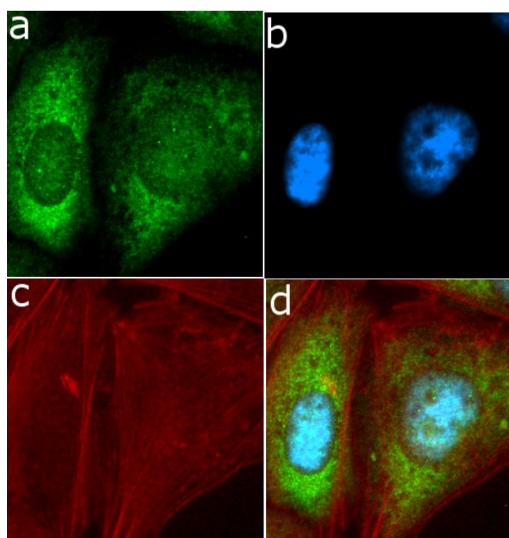


Figure 3 Immunocytochemistry analysis of ABfinity™ TIMP4 Recombinant Rabbit Oligooclonal Antibody (Cat. no. 710340).

Immunocytochemistry analysis of U20S cells stained with ABfinity™ TIMP4 Recombinant Rabbit Oligooclonal Antibody using **a:** Alexa Fluor® 488 goat anti-rabbit as a secondary (green) antibody. **b:** DAPI stained U20S 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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