

Basic Information

Product Name	Anti-TIMP4 Antibody	
Gene Name	TIMP4	
Source	Rabbit	
Clonality	Polyclonal	
Isotype	IgG	
Species Reactivity	human, mouse, rat	
Tested Application	WB, IHC, ICC/IF, FCM, ELISA	
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.	
Immunogen	E. coli-derived human TIMP4 recombinant protein (Position: N174-P224). Human TIMP4 shares 92.2% amino acid (aa) sequence identity with both mouse and rat TIMP4.	
Concentration	500 ug/ml	
Purification	Immunogen affinity purified.	
Observed MW	25 kDa	
Dilution Ratios	Western blot (WB):	1:500-2000
	Immunohistochemistry (IHC):	1:50-400
	Immunocytochemistry/Immunofluorescence (ICC/IF):	1:50-400
	Flow Cytometry (Fixed):	1:50-200
	Enzyme linked immunosorbent assay (ELISA):	1:100-1000
	(Boiling the paraffin sections in 10mM citrate buffer, pH6.0, or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.	

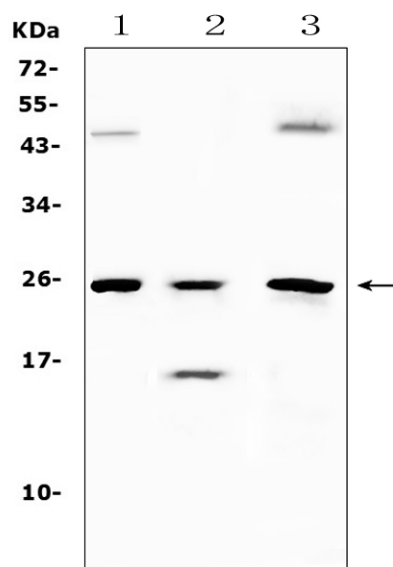
Storage

12 months from date of receipt, -20°C as supplied.

Background Information

Metalloproteinase inhibitor 4 is an enzyme that in humans is encoded by the TIMP4 gene. And this gene is mapped to chromosome 3p25. This gene belongs to the TIMP gene family. The proteins encoded by this gene family are inhibitors of the matrix metalloproteinases, a group of peptidases involved in degradation of the extracellular matrix. The secreted, netrin domain-containing protein encoded by this gene is involved in regulation of platelet aggregation and recruitment and may play role in hormonal regulation and endometrial tissue remodeling.

Selected Validation Data



Western blot analysis of TIMP4 using anti-TIMP4 antibody (A07131).

The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

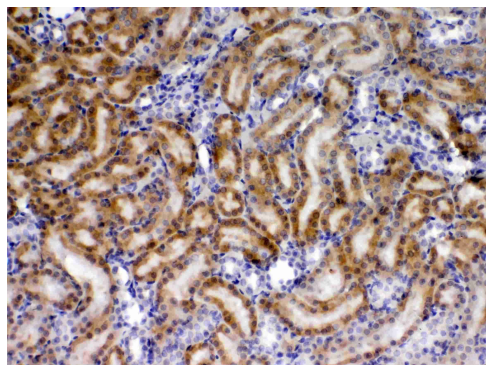
Lane 1: rat heart tissue lysates,

Lane 2: mouse heart tissue lysates,

Lane 3: HELA whole cell lysates.

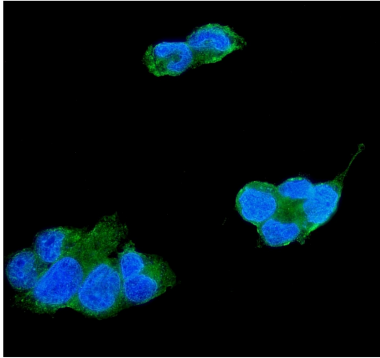
After electrophoresis, proteins were transferred to a membrane.

Then the membrane was incubated with rabbit anti-TIMP4 antigen affinity purified polyclonal antibody (A07131) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for TIMP4 at approximately 25 kDa. The expected band size for TIMP4 is at 26 kDa.



IHC analysis of TIMP4 using anti-TIMP4 antibody (A07131).

TIMP4 was detected in a paraffin-embedded section of rat kidney tissue. Biotinylated goat anti-rabbit IgG was used as secondary antibody. The tissue section was incubated with rabbit anti-TIMP4 Antibody (A07131) at a dilution of 1:200 and developed using Streptavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB (Catalog # AR1027) as the chromogen.



ICC/IF analysis of TIMP4 using anti-TIMP4 antibody (A07131).

TIMP4 was detected in an immunocytochemical section of HepG2 cells. The section was incubated with rabbit anti-TIMP4 Antibody (A07131) at a dilution of 1:100. Fluoro488 Conjugated Goat Anti-Rabbit IgG (Green) (Catalog # BA1127) was used as secondary antibody. The section was counterstained with DAPI (Catalog # AR1176) (Blue).