

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
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human TIMP4, different from the related rat sequence by two amino acids, and from the related mouse sequence by three amino acids.
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 (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.

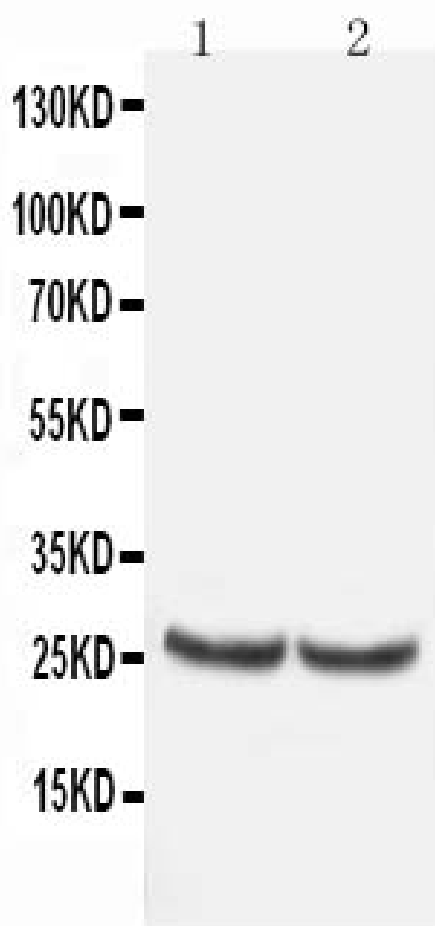
Background Information

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.

Reference

Anti-TIMP4 Antibody被引用在2文献中。

Selected Validation Data



Western blot analysis of TIMP4 using anti-TIMP4 antibody (BA0578). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

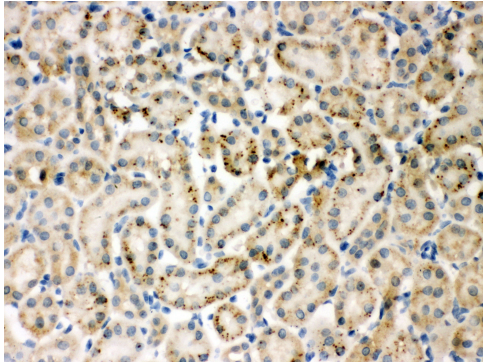
Lane 1: Rat kidney tissue lysates,

Lane 2: MCF-7 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 (BA0578) 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 (BA0578).

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 (BA0578) at a dilution of 1:200 and developed using Streptavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB (Catalog # AR1027) as the chromogen.