

Datasheet for ABIN5519064
anti-TIMP1 antibody (AA 24-207)

1 Image

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Overview

Quantity:	100 µg
Target:	TIMP1
Binding Specificity:	AA 24-207
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), ELISA

Product Details

Purpose:	Rabbit IgG polyclonal antibody for TIMP1 detection. Tested with WB, Direct ELISA in Human, Mouse, Rat.
Immunogen:	E. coli-derived human TIMP1 recombinant protein (Position: C24-A207).
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	<p>Rabbit IgG polyclonal antibody for TIMP1 detection. Tested with WB, Direct ELISA in Human, Mouse, Rat.</p> <p>Gene Name: TIMP metalloproteinase inhibitor 1</p> <p>Protein Name: Metalloproteinase inhibitor 1</p>
Purification:	Immunogen affinity purified.

Target Details

Target:	TIMP1
Alternative Name:	TIMP1 (TIMP1 Products)
Background:	<p>TIMP metalloproteinase inhibitor 1, also known as TIMP1, a tissue inhibitor of metalloproteinases, is a glycoprotein that is expressed from the several tissues of organisms. This protein is a member of the TIMP family. The glycoprotein is a natural inhibitor of the matrix metalloproteinases (MMPs), a group of peptidases involved in degradation of the extracellular matrix. In addition to its inhibitory role against most of the known MMPs, the encoded protein is able to promote cell proliferation in a wide range of cell types, and may also have an anti-apoptotic function. Transcription of this gene is highly inducible in response to many cytokines and hormones. TIMP was found to be located about 22 cM proximal to OTC (300461).</p> <p>Synonyms: Metalloproteinase inhibitor 1, Erythroid-potentiating activity, EPA, Fibroblast collagenase inhibitor, Collagenase inhibitor, Tissue inhibitor of metalloproteinases 1, TIMP-1, TIMP1, CLGI, TIMP</p>
Gene ID:	7076
UniProt:	P01033

Application Details

Application Notes:	<p>Notes: Tested Species: Species with positive results.</p> <p>Other applications have not been tested. Optimal dilutions should be determined by end users.</p>
Comment:	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (ABIN921124) for Western blot.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which

Handling

should be handled by trained staff only.

Storage: 4 °C,-20 °C

Storage Comment: At -20°C for one year. After reconstitution, at 4°C for one month.
It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

Publications

Product cited in: Ma, Pan, Ren, Guo, Guo, Wei, Zheng, Chen: "15-oxoeicosatetraenoic acid mediates monocyte adhesion to endothelial cell." in: **Lipids in health and disease**, Vol. 16, Issue 1, pp. 137, (2018) ([PubMed](#)).

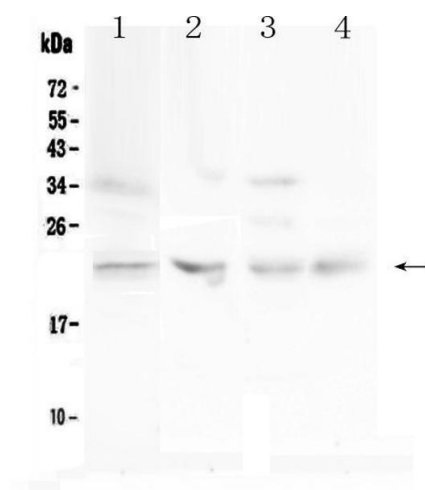
Wang, Qing, Liu, Liu, Qiao, Cui, He, Zhao, Liu, Yan, Wang, Liang, Guo, Shen, Hou, Chen: "Mesenchymal stromal cells ameliorate oxidative stress-induced islet endothelium apoptosis and functional impairment via Wnt4-β-catenin signaling." in: **Stem cell research & therapy**, Vol. 8, Issue 1, pp. 188, (2018) ([PubMed](#)).

Hoffman, Adeli: "LDL Receptor Gene-Ablated Hamsters: A Rodent Model of Familial Hypercholesterolemia with Dominant Inheritance and Diet-Induced Coronary Atherosclerosis." in: **EBioMedicine**, Vol. 28, pp. 17-18, (2018) ([PubMed](#)).

Tian, Tao, Zhao, Tai, Liu, Liu: "Isolation and morphological characterization of ovine amniotic fluid mesenchymal stem cells." in: **Experimental animals**, Vol. 65, Issue 2, pp. 125-34, (2017) ([PubMed](#)).

Ma, Pan, Chen, Guo, Zhao, Zheng, Chen: "Trimethylamine N-oxide in atherogenesis: impairing endothelial self-repair capacity and enhancing monocyte adhesion." in: **Bioscience reports**, Vol. 37, Issue 2, (2017) ([PubMed](#)).

There are more publications referencing this product on: [Product page](#)



Western Blotting

Image 1. Western blot analysis of TIMP1 using anti-TIMP1 antibody. Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each Lane was loaded with 50ug of sample under reducing conditions. Lane 1: human Hela whole cell lysates, Lane 2: rat ovary tissue lysates, Lane 3: rat lung tissue lysates, Lane 4: mouse ovary tissue lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-TIMP1 antigen affinity purified polyclonal antibody (Catalog #) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for TIMP1 at approximately 23KD. The expected band size for TIMP1 is at 23KD.