

## Product datasheet

# Anti-TIMP1 antibody - Carboxyterminal end ab38978

★★★★☆ [4 Abreviews](#) [34 References](#) [3 Images](#)

### Overview

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<b>Product name</b>	Anti-TIMP1 antibody - Carboxyterminal end
<b>Description</b>	Rabbit polyclonal to TIMP1 - Carboxyterminal end
<b>Host species</b>	Rabbit
<b>Specificity</b>	This antibody recognizes both reduced and non reduced TIMP1 protein, but does not cross react with other TIMP family members (TIMP2, TIMP3, TIMP4).
<b>Tested applications</b>	<b>Suitable for:</b> WB, Sandwich ELISA
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Synthetic peptide based on the carboxyterminal region of human TIMP1.
<b>General notes</b>	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&amp;As</p>

### Properties

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<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term.
<b>Storage buffer</b>	Preservative: 0.05% Sodium azide Constituent: 50% Glycerol
<b>Purity</b>	Immunogen affinity purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

### Applications

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**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab38978 in the following tested applications.

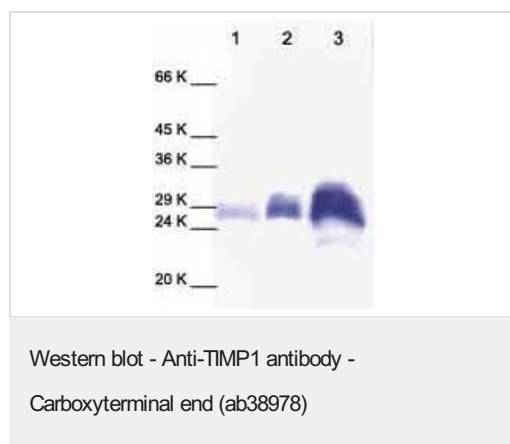
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB	★★★★★ (3)	1/1000 - 1/5000. Detects a band of approximately 29 kDa (predicted molecular weight: 23 kDa). Recommended starting dilution of 1/1000 when using colorimetric substrates such as BCIP/NBT and 1/5000 for chemiluminescent substrates. Detects a band of approximately 29 kDa when used against the reduced protein. Higher concentration of antibody may be needed for non human samples. Dilution optimised using Chromogenic
Sandwich ELISA		Use a concentration of 0.5 µg/ml. For sandwich ELISA, use this antibody as Detection at 0.5µg/ml with <b>ab28261</b> as Capture.

## Target

<b>Function</b>	Complexes with metalloproteinases (such as collagenases) and irreversibly inactivates them by binding to their catalytic zinc cofactor. Also mediates erythropoiesis in vitro; but, unlike IL-3, it is species-specific, stimulating the growth and differentiation of only human and murine erythroid progenitors. Known to act on MMP-1, MMP-2, MMP-3, MMP-7, MMP-8, MMP-9, MMP-10, MMP-11, MMP-12, MMP-13 and MMP-16. Does not act on MMP-14.
<b>Sequence similarities</b>	Belongs to the protease inhibitor I35 (TIMP) family. Contains 1 NTR domain.
<b>Post-translational modifications</b>	The activity of TIMP1 is dependent on the presence of disulfide bonds.
<b>Cellular localization</b>	Secreted.

## Images



**All lanes** : Anti-TIMP1 antibody - Carboxyterminal end (ab38978) at 1/1000 dilution

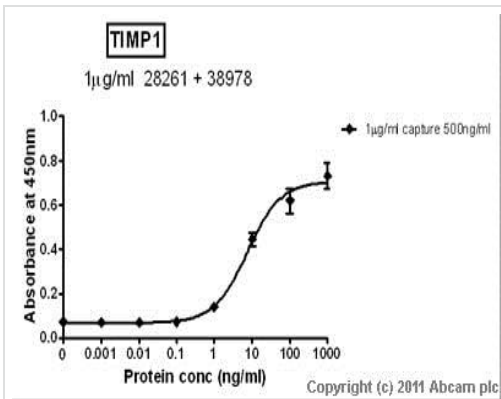
**Lane 1** : Human TIMP1

**Lane 2** : Cell media from human chondrosarcoma (no treatment)

**Lane 3** : Cell media from human chondrosarcoma (treated with TPA)

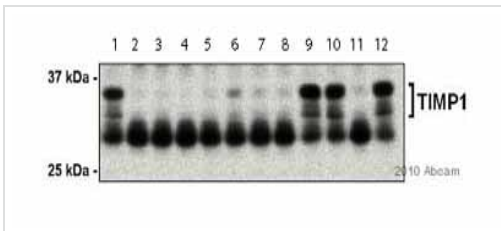
**Predicted band size:** 23 kDa

**Observed band size:** 29 kDa



Sandwich ELISA - Anti-TIMP1 antibody -  
Carboxyterminal end (ab38978)

Standard curve for TIMP1 (Analyte: **ab82104**); dilution range 1pg/ml to 1µg/ml using Capture Antibody Mouse monoclonal [2E7.1] to TIMP1 (**ab28261**) at 1µg/ml and Detector Antibody Rabbit polyclonal to TIMP1 - Carboxyterminal end (ab38978) at 0.5µg/ml.



Western blot - Anti-TIMP1 antibody -  
Carboxyterminal end (ab38978)  
Image courtesy of Koji Ueda by Abreview

Each lane corresponds to a distinct lung adenocarcinoma patient sample. The primary antibody was used at 1/3000 dilution. 10µg/ml lysate has been added per lane. A sheep anti-rabbit monoclonal conjugated to HRP was used as the secondary antibody at 1/10,000 dilution.

Detection method used was Western Lightning. 3 minutes. Performed under reducing conditions.

Samples blocked using 5% BSA for 1 hour at 25°C.

Non-specific band at 27kDa is thought to be Ig light chain.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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