

Datasheet for ABIN371661  
**anti-TIMP4 antibody**



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2 Images

## Overview

Quantity:	0.1 mg
Target:	TIMP4
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This TIMP4 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunohistochemistry (Frozen Sections) (IHC (fro))

## Product Details

Immunogen:	Recombinant TIMP-4.
Clone:	SB30c
Isotype:	IgG2a
Specificity:	This antibody is specific to Human TIMP4.
Characteristics:	Synonyms: TIMP-4, Tissue inhibitor of metalloproteinases 4, Metalloproteinase inhibitor 4
Purification:	Purified

## Target Details

Target:	TIMP4
Alternative Name:	TIMP4 ( <a href="#">TIMP4 Products</a> )

## Target Details

Background:	<p>The MMPs and TIMPs can be divided into two groups with respect to gene expression: the majority exhibit inducible expression and a small number are produced constitutively or are expressed at very low levels and are not inducible. Among agents that induce MMP and TIMP production are the inflammatory cytokines TNF alpha and IL1 beta. A marked cell type specificity is a hallmark of both MMP and TIMP gene expression (i.e. a limited number of cell types can be induced to make these proteins). Tissue Inhibitor of Metalloproteinases 4 (TIMP4) was identified by molecular cloning. TIMP4 shows 37 % amino acid identity with TIMP1 and 51 % homology with TIMP2 and TIMP3. TIMP4 is secreted extracellularly, predominantly in heart and brain tissue. It may function in a tissue specific fashion in extracellular matrix (ECM) homeostasis. TIMP4 has a strong inhibitory effect on the invasion of human breast cancer cells across reconstituted basement membranes suggesting that TIMP4 may have an important role in inhibiting primary tumor growth and progression. The human TIMP4 gene has the chromosomal location of 3p25. Synonyms: Metalloproteinase inhibitor 4, TIMP-4, Tissue inhibitor of metalloproteinases 4</p>
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Gene ID:	7079
UniProt:	<a href="#">Q99727</a>

## Application Details

Application Notes:	<p>Western Blot: Detects a band of approximately 26 kDa (predicted Mol. Weight: 26 kDa).</p> <p>Immunohistochemistry on Frozen Sections. Immunocytochemistry/Immunofluorescence: Use at 5 µg/mL.</p> <p>Other applications not tested.</p> <p>Optimal dilutions are dependent on conditions and should be determined by the user.</p>
Restrictions:	For Research Use only

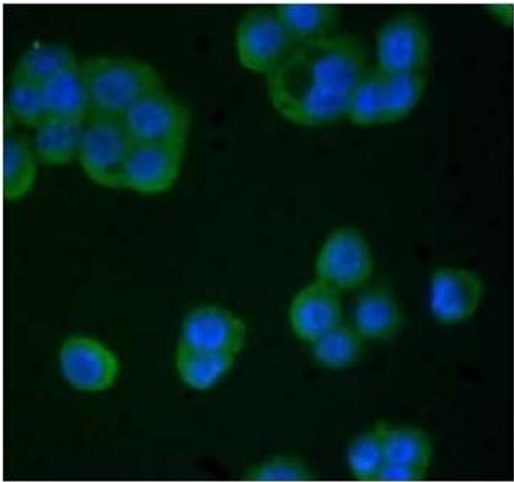
## Handling

Concentration:	0.5 mg/mL
Buffer:	100 mM Borate buffered saline, pH 8.2. No preservatives or amine-containing buffer salts added.
Storage:	4 °C/-20 °C
Storage Comment:	<p>Store the antibody undiluted at 2-8 °C for one month or (in aliquots) at -20 °C for longer. Avoid repeated freezing and thawing.</p> <p>Shelf life: one year from despatch.</p>

Handling

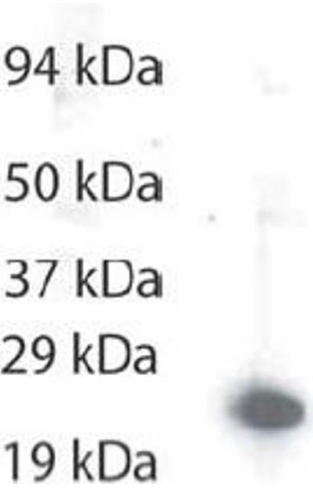
Expiry Date: 12 months

Images



**Immunofluorescence**

Image 1.



**Western Blotting**

Image 2.