

## Datasheet: 9013-1108

<b>Description:</b>	RABBIT ANTI HUMAN TIMP-1
<b>Specificity:</b>	TIMP-1
<b>Format:</b>	Purified
<b>Product Type:</b>	Polyclonal Antibody
<b>Isotype:</b>	Polyclonal IgG
<b>Quantity:</b>	0.1 mg

## Product Details

### Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Immunohistology - Paraffin	▪			1 µg/ml - 5 µg/ml
ELISA	▪			2.5 µg/ml - 10 µg/ml
Western Blotting	▪			5 µg/ml - 10 µg/ml

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using the appropriate negative/positive controls.

<b>Target Species</b>	Human
<b>Species Cross Reactivity</b>	Reacts with: Horse, Rabbit, Bovine, Ferret, Rat, Sheep <b>N.B.</b> Antibody reactivity and working conditions may vary between species.
<b>Product Form</b>	Purified IgG - liquid
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.02% Sodium Azide (NaN <sub>3</sub> )
<b>Approx. Protein Concentrations</b>	1.0 mg/ml
<b>Immunogen</b>	Human tissue inhibitor of metalloproteinase 1 (TIMP-1).
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P01033</a>   <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">7076</a> TIMP1   <a href="#">Related reagents</a></p>

<b>Synonyms</b>	CLGI, TIMP
<b>Specificity</b>	<p><b>Rabbit anti Human TIMP-1 antibody</b> recognizes human Tissue inhibitor of metalloproteinases 1, also known as TIMP-1, Metalloproteinase inhibitor 1, Erythroid-potentiating activity or Fibroblast collagenase inhibitor. TIMP-1 is a 207 amino acid, ~23 kDa secreted glycoprotein containing a 23 amino acid signaling peptide and a single <a href="#">NTR</a> domain. TIMP-1 is a metalloproteinase inhibitor that functions by formation of complexes with target metalloproteinases, binding to their catalytic cofactor leading to irreversible inactivation of the target metalloproteinase. TIMP-1 also functions as a growth factor and activates signalling cascades via CD63 and CD29 (<a href="#">Uniprot: P01033</a>). In humans TIMP-1 also functions to promote growth and differentiation of erythroid progenitors (<a href="#">Gasson et al. 1985</a>).</p> <p>Rabbit anti Human TIMP-1 antibody recognizes both native and denatured TIMP-1, as well as TIMP-1 in and out of enzyme/inhibitor complex. This antibody is not known to be neutralizing. TIMP-1 is expressed by a wide range of cells including microvascular endothelial cells, smooth muscle cells, mesangial cells and some fibroblasts.</p> <p>Rabbit anti Humn TIMP-1 antibody has been used successfully for the localization of TIMP-1 in a rabbit model of hypertrophic scarring by immunohistochemistry on formalin fixed, paraffin embedded sections (<a href="#">Tark et al. 2015</a>).</p>
<b>References</b>	<ol style="list-style-type: none"> <li>O'Kane, C.M. <i>et al.</i> (2010) STAT3, p38 MAPK, and NF-<math>\kappa</math>B Drive Unopposed Monocyte-Dependent Fibroblast MMP-1 Secretion in Tuberculosis. <a href="#">Am J Respir Cell Mol Biol. 43: 465-74.</a></li> <li>Tark, K.C. <i>et al.</i> (2015) Effects of ginsenoside Rb1 on hypertrophic scar remodeling in rabbit model. <a href="#">Eur J Pharmacol. 750C: 151-59.</a></li> </ol>
<b>Storage</b>	<p>Store at +4°C or at -20°C if preferred.</p> <p>Storage in frost-free freezers is not recommended.</p> <p>This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.</p>
<b>Shelf Life</b>	18 months from date of despatch.
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10040 available at: 10040: <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf</a>
<b>Regulatory</b>	For research purposes only

## Related Products

### Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...)	<a href="#">FITC</a>
Sheep Anti Rabbit IgG (STAR35...)	<a href="#">RPE</a>
Goat Anti Rabbit IgG (H/L) (STAR124...)	<a href="#">HRP</a>
Goat Anti Rabbit IgG (Fc) (STAR121...)	<a href="#">Biotin</a> , <a href="#">FITC</a> , <a href="#">HRP</a>
Sheep Anti Rabbit IgG (2AB02...)	<a href="#">Biotin</a>
Sheep Anti Rabbit IgG (STAR36...)	<a href="#">DyLight@488</a> , <a href="#">DyLight@549</a> , <a href="#">DyLight@649</a> , <a href="#">DyLight@680</a> , <a href="#">DyLight@800</a>

### Recommended Useful Reagents

[ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025A\)](#)

[ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025C\)](#)

[TidyBlot™ WESTERN BLOT DETECTION REAGENT:HRP \(STAR209P\)](#)

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