

Datasheet: 9013-1108

BATCH NUMBER 161118

Description:	RABBIT ANTI HUMAN TIMP-1
Specificity:	TIMP-1
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	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.

	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.

Target Species	Human
Species Cross Reactivity	<p>Reacts with: Horse, Rabbit, Bovine, Ferret, Rat, Sheep</p> <p>N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.</p>
Product Form	Purified IgG - liquid
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.02% Sodium Azide (NaN ₃)
Approx. Protein Concentrations	1.0 mg/ml

Immunogen	Human tissue inhibitor of metalloproteinase 1 (TIMP-1).
External Database Links	<p>UniProt: P01033 Related reagents</p> <p>Entrez Gene: 7076 TIMP1 Related reagents</p>
Synonyms	CLGI, TIMP
RRID	AB_2204551
Specificity	<p>Rabbit anti Human TIMP-1 antibody 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 NTR 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 (Uniprot: P01033). In humans TIMP-1 also functions to promote growth and differentiation of erythroid progenitors (Gasson <i>et al.</i> 1985).</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 (Tark <i>et al.</i> 2015).</p>
References	<ol style="list-style-type: none"> 1. O'Kane, C.M. <i>et al.</i> (2010) STAT3, p38 MAPK, and NF-κB Drive Unopposed Monocyte-Dependent Fibroblast MMP-1 Secretion in Tuberculosis. Am J Respir Cell Mol Biol. 43: 465-74. 2. Tark, K.C. <i>et al.</i> (2015) Effects of ginsenoside Rb1 on hypertrophic scar remodeling in rabbit model. Eur J Pharmacol. 750C: 151-59.
Storage	<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>
Guarantee	12 months from date of despatch
Health And Safety	Material Safety Datasheet documentation #10040 available at:

Information <https://www.bio-rad-antibodies.com/SDS/9013-1108>
10040

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...) [FITC](#)
Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)
Sheep Anti Rabbit IgG (STAR35...) [RPE](#)
Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)

Recommended Useful Reagents

[ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025A\)](#)
[TidyBlot WESTERN BLOT DETECTION REAGENT:HRP \(STAR209P\)](#)

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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)
'M363550:200528'

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