

Datasheet: AHP1859

Description:	RABBIT ANTI HUMAN MMP-1 (N-TERMINAL)
Specificity:	MMP-1 (N-TERMINAL)
Other names:	INTERSTITIAL COLLAGENASE
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	50 µg

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)	▪			5ug/ml
Western Blotting	▪			1 - 2ug/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 appropriate negative/positive controls.

(1)This product requires antigen retrieval using heat treatment prior to staining of paraffin sections.Sodium citrate buffer pH 6.0 is recommended for this purpose.

Target Species	Human
Species Cross Reactivity	Reacts with: Rat N.B. Antibody reactivity and working conditions may vary between species.
Product Form	Purified IgG - liquid
Antiserum Preparation	Antiserum to MMP-1 was raised by repeated immunisation of rabbits with highly purified antigen. Purified IgG was prepared from whole serum by affinity chromatography.
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.05% Sodium Azide (NaN ₃) 0.1% Bovine Serum Albumin
Approx. Protein Concentrations	IgG concentration 0.2mg/ml
Immunogen	A synthetic peptide corresponding to the N-terminus of the pro form of human MMP1.

**External Database
Links**

UniProt:

[P03956](#) [Related reagents](#)
[P81563](#) [Related reagents](#)

Entrez Gene:

[4312](#) MMP1 [Related reagents](#)
[432357](#) Mmp1 [Related reagents](#)

Synonyms

CLG

Specificity

Rabbit anti human MMP-1 antibody recognises human matrix metalloproteinase 1. The MMP's are zinc-dependent endopeptidases responsible for degrading the extracellular matrix. They are also involved in cell proliferation, migration, differentiation and apoptosis. Most MMP's are synthesised as inactive zymogens and a propeptide region must be cleaved off before the enzyme becomes active. Their expression is increased dramatically in a variety of cancer types, where it indicates invasive disease and a poor prognosis. MMP-1 is one of the collagenases, capable of degrading collagens I, II and III, all main components of the interstitial stroma. It is overexpressed in invasive melanoma, colorectal and esophageal cancers. It has also been implicated in arthritis and might influence atherosclerotic lesion formation. It might also be involved in the repair processes of the heart after myocardial infarction.

**Histology Positive
Control Tissue**

Human kidney

References

1. Ierusalimsky, V.N. *et al.* (2013) Expression of the type 1 metalloproteinase in the rat hippocampus after the intracerebroventricular injection of β -amyloid peptide (25-35). [Acta Neurobiol Exp \(Wars\)](#). 73: 571-8.

Storage

Store at +4°C or at -20°C if preferred.
Storage in frost-free freezers is not recommended.
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.

Shelf Life

18 months from date of despatch.

**Health And Safety
Information**

Material Safety Datasheet Documentation #10041 available at:
<https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf>

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR54...) [HRP](#)

Recommended Useful Reagents

[HISTAR DETECTION SYSTEM \(STAR3000A\)](#)
[ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025A\)](#)
[ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025C\)](#)

TidyBlot™ WESTERN BLOT DETECTION REAGENT:HRP (STAR209P)

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