

Datasheet: MCA2734GA

BATCH NUMBER 150499

Description:	MOUSE ANTI HUMAN MMP-3
Specificity:	MMP-3
Other names:	STROMELYSIN-1
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	1B4
Isotype:	lgG1
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
Flow Cytometry			•	
Immunohistology - Frozen				
Immunohistology - Paraffin (1)	•			
ELISA				
Immunoprecipitation			•	
Western Blotting	•			

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
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein G
Buffer Solution	Phosphate buffered saline

Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)
Carrier Free	Yes
Approx. Protein Concentrations	lgG concentration 1.0mg/ml
Immunogen	Ovalbumin conjugated synthetic peptide corresponding to a region within the C-terminus of human MMP-3.
External Database Links	UniProt: P08254 Related reagents Entrez Gene: 4314 MMP3 Related reagents
Synonyms	STMY1
RRID	AB_2146579
Fusion Partners	Spleen cells from immunised Balb/c mice were fused with cells of the Ag8563 myeloma cell line.
Specificity	Mouse anti Human MMP-3 antibody, clone 1B4 recognizes human matrix metalloproteinase 3, also known as MMP-3, stromelysin-1 or transin-1. MMP-3 in its pro-form is a 477 amino acid ~54kDa zinc dependent endopeptidase processed to a 378
	amino acid, ~45 kDa peptide in the mature form containing 4 hemopexin-like repeats. MMPs are also involved in cell proliferation, migration, differentiation and apoptosis (Janaet al. 2012). 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 (Holmberg et al. 2013). MMP-3 can degrade proteoglycan, fibronectin, laminin, and type IV collagen, but not interstitial type I collagen (Wilhelm et al. 1993). It can activate other MMP's and may be involved in the repair processes of the heart after myocardial infarction (Wang et al. 2011).
	amino acid, ~45 kDa peptide in the mature form containing 4 <a hemopexin-like"="" href="https://memory.new.new.new.new.new.new.new.new.new.new</th></tr><tr><th>Histology Positive
Control Tissue</th><th>amino acid, ~45 kDa peptide in the mature form containing 4 hemopexin-like repeats. MMPs are also involved in cell proliferation, migration, differentiation and apoptosis (Jana et al. 2012). 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 (Holmberg et al. 2013). MMP-3 can degrade proteoglycan, fibronectin, laminin, and type IV collagen, but not interstitial type I collagen (Wilhelm et al. 1993). It can activate other MMP's and may be involved in the repair processes of the heart after myocardial infarction (Wang et al. 2011). Mouse anti human MMP-3 antibody, clone 1B4 has been used successfully for the identification of MMP-3 in gastric cancer by both Western blotting and</th></tr><tr><th></th><th>amino acid, ~45 kDa peptide in the mature form containing 4 hemopexin-like repeats. MMPs are also involved in cell proliferation, migration, differentiation and apoptosis (Jana et al. 2012). 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 (Holmberg et al. 2013). MMP-3 can degrade proteoglycan, fibronectin, laminin, and type IV collagen, but not interstitial type I collagen (Wilhelm et al. 1993). It can activate other MMP's and may be involved in the repair processes of the heart after myocardial infarction (Wang et al. 2011). Mouse anti human MMP-3 antibody, clone 1B4 has been used successfully for the identification of MMP-3 in gastric cancer by both Western blotting and immunohistochemistry (Murray et al. 1998)

Gut. 43 (6): 791-7.

2. Lyall, M.S. *et al.* (2006) Profiling markers of prognosis in colorectal cancer. <u>Clin Cancer</u> Res. 12 (4): 1184-91.

3. Juica, N.E. *et al.* (2017) *Neisseria gonorrhoeae* Challenge Increases Matrix Metalloproteinase-8 Expression in Fallopian Tube Explants. <u>Front Cell Infect Microbiol. 7:</u> 399.

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.

Regulatory For research purposes only

10040

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...) HRP
Rabbit Anti Mouse IgG (STAR12...) RPE

Goat Anti Mouse IgG IgA IgM (STAR87...) Alk. Phos., HRP

Goat Anti Mouse IgG (STAR76...)

Goat Anti Mouse IgG (Fc) (STAR120...) FITC, HRP

Rabbit Anti Mouse IgG (STAR13...) HRP
Goat Anti Mouse IgG (STAR70...) FITC

Goat Anti Mouse IgG (H/L) (STAR117...) Alk. Phos., DyLight®488, DyLight®550,

RPE

DyLight®650, DyLight®680, DyLight®800,

FITC, HRP

Rabbit Anti Mouse IgG (STAR9...) FITC

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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 'M367379:200529'

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