

MT1-MMP

A MATRIX METALLOPROTEINASE

Matrix metalloproteinases (MMP) are a group of Zn²⁺ dependent endopeptidases that are involved in the remodeling and the degradation of the extracellular membrane⁷ (ECM). MMPs are referred to as collagenases, gelatinases, stromelysin or membrane type 1 metalloproteinases, based on their specificity for ECM components. Most metalloproteinases are secreted as proenzymes⁴ and activated extracellularly by proteases and other MMPs. Alteration in the regulation of MMP activity has been implicated in many diseases, including cancer, fibrosis, arthritis and atherosclerosis,¹ making them highly investigated therapeutic targets. Many MMPs have been implicated in tumor invasion and metastasis. In malignant tumors the balance between MMPs and their natural inhibitors, the Tissue Inhibitors of MetalloProteinases (TIMPs) is disturbed.²

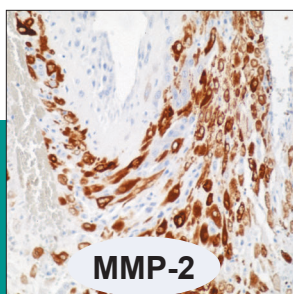


MT1-MMP (or MMP-14) is critical for tumor cell invasion,³ and is involved in ECM degradation, MMP activation and processing of cell adhesion molecules. MT1-MMP has been implicated in many cancers including colorectal carcinomas,⁷ melanomas,³ prostate carcinoma and hepatocellular carcinoma. In a study utilizing Bowes Melanoma cell line, MT1-MMP has been demonstrated to have a role in promoting both selective invasion and increased growth in malignant melanoma in vivo.³ In addition, Takino T, et al. (2004), demonstrated that MT1-MMP is regulated by the MEK/ERK signaling using an MMP inhibitor (BB94) and HT1080 cells.

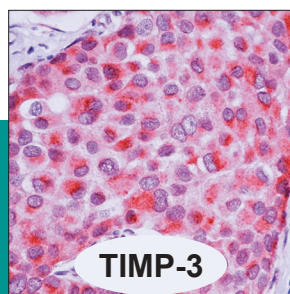
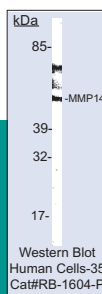
For a complete list of well characterized monoclonal and polyclonal MMP and TIMP antibodies offered by Lab Vision Corporation, please refer to the back of this flyer.

References:

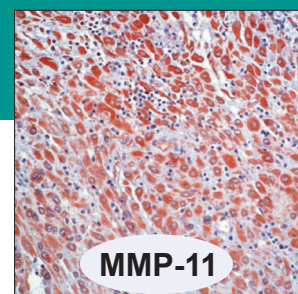
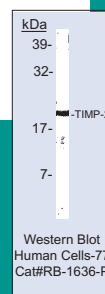
1. Beaudoux JL, Clin Chem Lab Med. 2004 Feb;42 (2):121-31
2. Hemmerlein B, et al. Int J Oncol. 2004 May; 24 (5): 1069-76
3. Iida J, et al. Invest Dermatol. 2004 Jan;122(1):167-76.
4. McIntush EW, and MF Smith. Rev of Reprod. 1998; 3 : 23-30
5. Takino T, et al. Cancer Res. 2004 Feb 1;64(3):1044-9
6. Zhou XD. Hepat Pancreat Dis Int. 2002 Feb; 1(1):35-41
7. Zucker A, and J Vaciraca. Cancer Meta. Rev. 2004 Jan-June; (1-2):101-17



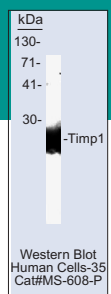
MMP-2



TIMP-3



MMP-11

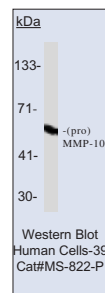
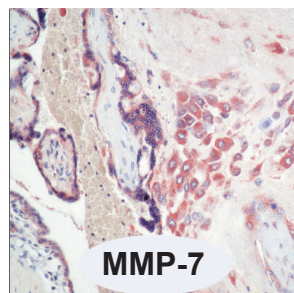
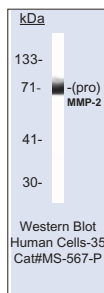
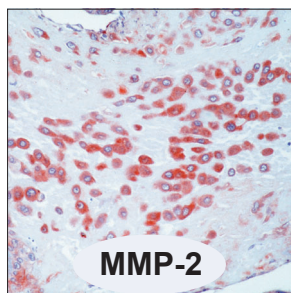


MMP and TIMP Product List

DESCRIPTION	CLONE	CATALOG #	DESCRIPTION	CLONE	CATALOG #
MMP-1	polyclonal	RB-9225	MMP-10 (Stromelysin-2)	polyclonal	RB-9235
MMP-1 (Collagenase-1) Ab-1	X2A	MS-801	MMP-11 (Stromelysin-3) Ab-1	SL3.01	MS-1031
MMP-1 (Collagenase-1) Ab-2	VI3	MS-802	MMP-11 (Stromelysin-3) Ab-2	SL3.02	MS-1032
MMP-1 (Collagenase-1) Ab-3	COMY 4A2	MS-803	MMP-11 (Stromelysin-3) Ab-3	SL3.03	MS-1033
MMP-1 (Collagenase-1) Ab-4	III7	MS-929	MMP-11 (Stromelysin-3) Ab-4	SL3.04	MS-1034
MMP-1 (Collagenase-1) Ab-5	III12b	MS-930	MMP-11 (Stromelysin-3) Ab-5	SL3.05	MS-1035
MMP-1 (Collagenase-1) Ab-6	polyclonal	RB-1536	MMP-11 (Stromelysin-3) Ab-6	SL3.06	MS-1036
MMP-1 (Collagenase-1) Ab-7	polyclonal	RB-1635	MMP-11 (Stromelysin-3) Ab-7	polyclonal	RB-071
MMP-2 (72kDa Collagenase IV) Ab-1	CA-4001	MS-567	MMP-11 (Stromelysin-3) Ab-8	SL3.08	MS-1078
MMP-2 (72kDa Collagenase IV) Ab-2	VB3	MS-804	MMP-13 (Collagenase-3) Ab-3*	LIPCO IID1	MS-827
MMP-2 (72kDa Collagenase IV) Ab-3	VID2	MS-805	MMP-13 (Collagenase-3) Ab-4*	VIIIC4	MS-828
MMP-2 (72kDa Collagenase IV) Ab-4	A-Gel VC2	MS-806	MMP-13 (Collagenase-3) Ab-1	VIIIA2	MS-825
MMP-2 (72kDa Collagenase IV) Ab-5	Gel-B IIA5	MS-807	MMP-13 (Collagenase-3) Ab-2	ID3	MS-826
MMP-2 (72kDa Collagenase IV) Ab-6	KO VIIIB1	MS-808	MMP-13 (Collagenase-3) Ab-5	polyclonal	RB-1681
MMP-2 (72kDa Collagenase IV) Ab-7	polyclonal	RB-1537	MMP-14 / MT1-MMP Ab-1	polyclonal	RB-1544
MMP-2 (72kDa Collagenase IV) Ab-8	polyclonal	RB-1588	MMP-14 / MT1-MMP Ab-2	polyclonal	RB-1545
MMP-2 (72kDa Collagenase IV)	polyclonal	RB-9233	MMP-14 / MT1-MMP Ab-3	polyclonal	RB-1604
MMP-3 (Stromelysin-1) Ab-1	SL-1 ID3	MS-809	MMP-15	polyclonal	RB-9280
MMP-3 (Stromelysin-1) Ab-2	SL-1 IID4	MS-810	MMP-15 / MT2-MMP Ab-1	polyclonal	RB-1546
MMP-3 (Stromelysin-1) Ab-3	SL-1 IIIC4	MS-811	MMP-16 / MT3-MMP Ab-1	polyclonal	RB-1547
MMP-3 (Stromelysin-1) Ab-5	polyclonal	RB-1589	MMP-23 Ab-1	polyclonal	RB-1543
MMP-7 (Matrilysin) Ab-1	ID2	MS-813	TIMP-1 Ab-1	102B1	MS-570
MMP-7 (Matrilysin) Ab-2	VC5	MS-814	TIMP-1 Ab-2	102D1	MS-608
MMP-7 (Matrilysin) Ab-3	polyclonal	RB-1530	TIMP-1 Ab-3	NaTIA2	MS-829
MMP-7 (Matrilysin) Ab-4	4A3	MS-1689	TIMP-1 Ab-4	rTIX6A	MS-830
MMP-9 (92kDa Collagenase IV)* Ab-7	ID4	MS-819	TIMP-1 Ab-5	polyclonal	RB-1531
MMP-9 (92kDa Collagenase IV) Ab-1	GE-213	MS-569	TIMP-1 Ab-6	polyclonal	RB-1532
MMP-9 (92kDa Collagenase IV) Ab-10	polyclonal	RB-1590	TIMP-1 Ab-7	2A5	MS-1567
MMP-9 (92kDa Collagenase IV) Ab-3	IA4	MS-815	TIMP-1	polyclonal	RB-9204
MMP-9 (92kDa Collagenase IV) Ab-4	IA5	MS-816	TIMP-2 Ab-1	T2-101	MS-571
MMP-9 (92kDa Collagenase IV) Ab-5	IIA5	MS-817	TIMP-2 Ab-2	T2-N IC3	MS-832
MMP-9 (92kDa Collagenase IV) Ab-6	IVA2	MS-818	TIMP-2 Ab-3	T2-N VD6	MS-833
MMP-9 (92kDa Collagenase IV) Ab-8	VIIC2	MS-820	TIMP-2 Ab-5	3A4	MS-1485
MMP-9 (92kDa Collagenase IV) Ab-9	polyclonal	RB-1539	TIMP-2 Ab-7	polyclonal	RB-1488
MMP-9 (92kDa Collagenase IV)	polyclonal	RB-9234	TIMP-2 Ab-8	polyclonal	RB-1489
MMP-10 (Stromelysin-2) Ab-1	IB1	MS-821	TIMP-2 Ab-9	polyclonal	RB-1636
MMP-10 (Stromelysin-2) Ab-2	IVC5	MS-822	TIMP-2	polyclonal	RB-9286
MMP-10 (Stromelysin-2) Ab-3	VC3	MS-823	TIMP-3 Ab-1	polyclonal	RB-1541
MMP-10 (Stromelysin-2) Ab-4	IIA1	MS-824	TIMP-3	polyclonal	RB-9253
MMP-10 (Stromelysin-2) Ab-5	polyclonal	RB-1540	TIMP-4 Ab-1	polyclonal	RB-1542
MMP-10 (Stromelysin-2) Ab-6	polyclonal	RB-1702	TIMP-4	polyclonal	RB-9248

* anti-rat

* anti-rat



NEOMARKERS

Lab Vision Corporation
47790 Westinghouse Drive
Fremont, CA 94539 USA
tel: 001 800 828 1628
tel: 001 510 991 2800
fax: 001 510 991 2826
labvision@labvision.com

Lab Vision UK, Ltd.
The Pines, Fordham Road
Newmarket, Suffolk CB8 7LG
United Kingdom
tel: 0044 1638 721195
fax: 0044 1638 721196
labvision@labvision.co.uk

Apogent.

for more information, please contact your
local representative, or visit
www.labvision.com

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