

*Matrix Metalloproteases*

# MMP 연구의 total solution !

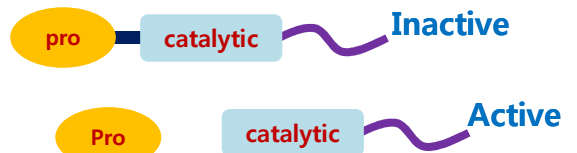
1. Sample 내의 MMP 양을 측정하고 싶을 때		2. 실제 MMP의 activity를 확인하고 싶을 때	
세계 1위 ELISA kit <b>Quantikin &amp; DuoSet</b>	여러 종류를 한번에! <b>Multiplex kit</b>	형광으로 간편하게! <b>Activity assay kit</b>	다양한 형광 substrate line up! <b>MMP substrate</b>
3. 선명한 western blot band, 깨끗한 IHC 사진을 얻고 싶을 때		4. MMP 저해 효과에 대한 연구를 진행 하고 있을 때	
경험자가 추천하는 R&D의 <b>Antibody &amp; Protein</b>	MMP 전용 <b>WB Standard</b>	Biological activity 가 확실히 밝혀져 있는 <b>다양한 Inhibitor</b>	

## 1. MMP 정량

< MMP 기질 별 kit 구분 >

collagenases MMP-1,8,13	Human Pro-MMP-1 Quantikine ELISA Kit	DMP100
	Human Total MMP-1 DuoSet	DY901
	Human Total MMP-8 DuoSet	DY908
	Human Pro-MMP-13 Quantikine ELISA Kit	DM1300
	Human total MMP-1 ELISpot	EL901
gelatinases MMP-2,9	Human MMP-2 DuoSet	DY902
	Human MMP-2 Quantikine ELISA Kit	DMP2F0
	Mouse Pro-MMP-9 Quantikine ELISA Kit	MMP900B
	Human Total MMP-9 Cell-Based ELISA	KCB911
	Human Total MMP-9 DuoSet	DY911
	Mouse Pro-MMP-9 DuoSet	DY909
	Human MMP-9 Quantikine ELISA Kit	DMP900
Matrilysin MMP-7	Human Total MMP-7 DuoSet	DY907
	Human Total MMP-7 Quantikine ELISA Kit	DMP700
stromelysins MMP-3,10,11	Mouse Total MMP-3 Quantikine ELISA Kit	MMP300
	Human Total MMP-3 Cell-Based ELISA	KCB513
	Mouse Total MMP-3 DuoSet	DY548
	Human Total MMP-3 DuoSet	DY513
	Human Total MMP-3 Quantikine ELISA Kit	DMP300
	Human Total MMP-10 DuoSet	DY910
	Human Pro-MMP-10 Quantikine ELISA Kit	DM1000
inhibitor complex	Human MMP-1/TIMP-1 Complex DuoSet	DY1550
	Human MMP-3/TIMP-4 Complex DuoSet	DY1469
	Human MMP-3/TIMP-2 Complex DuoSet	DY1468
	Human MMP-3/TIMP-1 Complex DuoSet	DY1467
	Human MMP-9/TIMP-2 Complex DuoSet	DY1453
	Human MMP-9/TIMP-4 Complex DuoSet	DY1450
	Human MMP-9/TIMP-1 Complex DuoSet	DY1449

MMP는 pro-peptide를 포함하고 있는 **pro form**과 pro-peptide가 떨어진 **active form**으로 나누어 집니다.



Total ELISA는 pro form, active form, inactive form 모두 측정 하는 제품입니다.

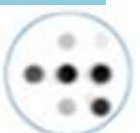
		human		mouse	
		Q	D	Q	D
MMP1	pro	DMP100	DY901	-	-
	active	-	-	-	-
MMP2	pro	DMP2F0	DY902	-	-
	active	-	-	-	-
MMP3	pro	DMP300	DY513	MMP300	DY548
	active	-	-	-	-
MMP8	pro	-	DY908	-	-
	active	-	-	-	-
MMP-13	pro	DM1300	-	-	-
	active	-	-	-	-
MMP-9	pro	DMP900 *	DY911	MMP900B	DY909
	active	-	-	-	-
MMP-7	pro	DMP700	DY907	-	-
	active	-	-	-	-
MMP-10	pro	DM1000	DY910	-	-
	active	-	-	-	-

\* 92 kDa Pro & 82 kDa active)not 65 kDa

**Multiplex**

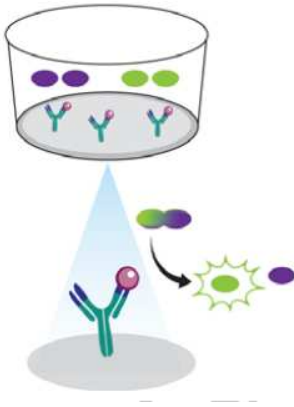
Luminex 장비가 있다면?  
**F-MAP MMP panel**  
(MMP-1,2,3,7,8,9,12,13)

Luminex 장비가 없어도!!  
**Mosaic ELISA**  
(MMP-1,2,3,7,8,9,13)



## 2. Activity assay

Ab에 detection 된 MMP의 Activity에 의해 substrate가 분해되면서 형광을 나타냄



### < kit로 구성된 제품 >

F13M00	Human Active MMP-13 Fluorokine E Kit	Active MMP plate, STD, buffer, APMA, substrate, plate cover **fluorometer 필요
F1M00	Human Active MMP-1 Fluorokine E Kit	
F9M00	Human Active MMP-9 Fluorokine E Kit	

### < 형광 substrate >

ES001	Mca-PLGL-Dpa-AR-NH2 Fluorogenic MMP Substrate	MMP-1,2,7,8,9,12,13,14,15,16 Cathepsin D & E
ES002	Mca-RPKPVE-Nval-WRK(Dnp)-NH2 Fluorogenic MMP Substrate	MMP-3,10 trypsin, HGF activator, FactorXa
ES010	Mca-KPLGL-Dpa-AR-NH2 Fluorogenic Peptide Substrate	MMP-1,2,7,8,9,11,12,13,14,16 ADAM10, TACE CathepsinD, CathepsinE

## 3. Antibody and protein

HUMAN	Antibody		PROTEIN	WB Standard
	PRIMARY	BIOTIN		
MMP-1	AF901	BAF901	901-MP	WBC024
MMP-2	AF902	BAF902	902-MP 902-MPN	WBC025
MMP-3	AF513	BAF513	513-MP	WBC015
MMP-7	AF907	BAF907	907-MP	WBC016
MMP-8	AF908	BAF908	908-MP	WBC017
MMP-9	AB911 AF911	BAF911	911-MP 911-MPN	WBC018
MMP-10	AF910	BAF910	910-MP	WBC026
MMP-12	AF917		917-MP	WBC019
MMP-13	AF511	BAF511	511-MM	WBC020
MMP-14	AF918	-	918-MP 918-MPN	-
MMP-16	AF1785	-	1785-MP	-
MMP-19	AF6790	-		-
MMP-24	AB924	-		WBC0014

MOUSE	Antibody		PROTEIN	WB Standard
	PRIMARY	BIOTIN		
MMP-2	-	BAF1488	924-MP	-
MMP-3	AF548	BAF548	548-MM	-
MMP-7	AF2967	BAF2967	2967-MP	-
MMP-8	AF3245	-	2904-MP	-
MMP-9	AF909	BAF909	909-MM	WBC031
PRO-MMP-9	-	BAM909	-	-
MMP-12	AF3467	-	3467-MP	-
MMP-24	AB924 AF1488	-		-

### < 형광 ANTIBODY >

MMP-14	AP	FAB9181A	MMP-24	AP	FAB924A
	Alexa	FAB9181G		Alexa	FAB924G
	PE	FAB9181P		PE	FAB924P

## 4. NEW!! Bioactive Inhibitors from Tocris®

inhibitor	2621	MMP-2	ARP 100	Selective inhibitor of MMP-2
	2622	MMP-2	ARP 101	Inhibitor of MMP-2
	2961	MMP	Batimastat	Potent, broad spectrum MMP inhibitor
	2632	MMP-13	CL 82198 hydrochloride	Selective inhibitor of MMP-13
	3780	MMP	CP 471474	Broad spectrum MMP inhibitor
	4090	MMP	Doxycycline hyclate	Broad-spectrum MMP inhibitor; tetracycline derivative
	2631	MMP	Marimastat	Broad spectrum MMP inhibitor
	3268	MMP	Minocycline hydrochloride	Inhibitor of MMP activity
	2628	MMP	ONO 4817	Broad spectrum MMP inhibitor
	2520	MMP	PD 166793	Broad spectrum MMP inhibitor
	2916	collagenase	Ro 32-3555	Potent, collagenase-selective MMP inhibitor
	4187	MMP-3	UK 356618	Potent and selective MMP-3 inhibitor
	2900	MMP-3 MMP-12	UK 370106	Highly selective MMP-3 and MMP-12 inhibitor
	2633	MMP-13	WAY 170523	Potent and selective inhibitor of MMP-13
Substrates	1892	MMP-2	Amyloid $\beta$ -Peptide (10-20) (human)	MMP-2/gelatinase A/type IV collagenase substrate
Other	3807	MMP-2/9	Disulfiram	Inhibits expression of MMP-2 and MMP-9; displays a range of other activities



이외 관련된 제품에 대한 문의 사항이 있으시면  
웅비메디텍 학술팀으로 연락 주세요