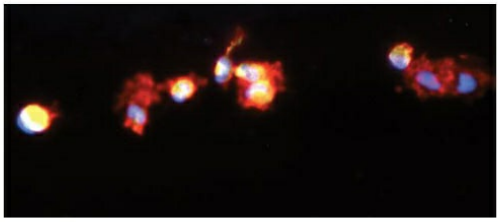
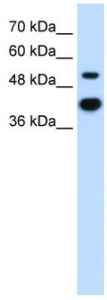
MMP1 antibody - C-terminal region (ARP42040_T100) Data Sheet

Product Number	ARP42040_T100
Product Name	MMP1 antibody - C-terminal region (ARP42040_T100)
Size	100ug
Gene Symbol	MMP1
Alias Symbols	CLG; CLGN
Nucleotide Accession#	NM_002421
Protein Size (# AA)	469 amino acids
Molecular Weight	52kDa
Product Format	Lyophilized powder
NCBI Gene Id	4312
Host	Rabbit
Clonality	Polyclonal
Official Gene Full Name	Matrix metallopeptidase 1 (interstitial collagenase)
Gene Family	ENDOLIG
Description	This is a rabbit polyclonal antibody against MMP1. It was validated on Western Blot using a cell lysate as a positive control. Aviva Systems Biology strives to provide antibodies covering each member of a whole protein family of your interest. We also use our best efforts to provide you antibodies recognize various epitopes of a target protein. For availability of antibody needed for your experiment, please inquire ().
Peptide Sequence	Synthetic peptide located within the following region: YPKMIAHDFPGIGHKVDAVFMKDGFFYFFHGTRQYKFDPKTKRILTLQKA
Target Reference	Montero,I., (2006) J. Am. Coll. Cardiol. 47 (7), 1369-1378
Description of Target	Proteins of the matrix metalloproteinase (MMP) family are involved in the breakdown of extracellular matrix in normal physiological processes, such as embryonic development, reproduction, and tissue remodeling, as well as in disease processes, such as arthritis and metastasis. Most MMP's are secreted as inactive proproteins which are activated when cleaved by extracellular proteinases. MMP1 is a secreted enzyme which breaks down the interstitial collagens, types I, II, and III.Proteins of the matrix metalloproteinase (MMP) family are involved in the breakdown of extracellular matrix in normal physiological processes, such as embryonic development, reproduction, and tissue remodeling, as well as in disease processes, such as arthritis and metastasis. Most MMP's are secreted as inactive proproteins which are activated when cleaved by extracellular proteinases. This gene encodes a secreted enzyme which breaks down the interstitial collagens, types I, II, and III. The gene is part of a cluster of MMP genes which localize to chromosome 11q22.3.Proteins of the matrix metalloproteinase (MMP) family are involved in the breakdown of extracellular matrix in normal physiological processes, such as embryonic development, reproduction, and tissue remodeling, as well as in disease processes, such as arthritis and metastasis. Most MMP's are secreted as inactive proproteins which are activated when cleaved by extracellular proteinases. This gene encodes a secreted enzyme which breaks down the interstitial collagens, types I, II, and III. The gene is part of a cluster of MMP genes which localize to chromosome 11q22.3.
Partner Proteins	ACAN, BCAN, CCL13, CCL2, CCL7, CCL8, DCN, HAPLN1, IGFBP3, MMP3, PLG, SERPINE1, SPOCK1, SPOCK3, SPP1, TIMP1, TIMP3, TNFSF11, BCAN, SPOCK3, TIMP1
Reconstitution and Storage	Add 100 ul of distilled water. Final anti-MMP1 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at -20C. Avoid repeat freeze-thaw cycles.
Lead Time	Domestic: within 24 hours delivery International: 3-5 business days
Blocking Peptide	For anti-MMP1 antibody is Catalog # AAP42040 (Previous Catalog # AAPP24521)
Immunogen	The immunogen for anti-MMP1 antibody: synthetic peptide directed towards the C terminal of human MMP1
Swissprot Id	P03956
Protein Name	Interstitial collagenase
Sample Type Confirmation	MMP1 is supported by BioGPS gene expression data to be expressed in HT1080
Protein Accession #	NP_002412
Purification	Protein A purified
Species Reactivity	Human, Horse, Rabbit, Bovine, Guinea pig, Dog
Application	IHC, WB
Predicted Homology Based on Immunogen Sequence	Horse: 100%; Human: 100%; Rabbit: 100%; Bovine: 93%; Pig: 92%; Guinea pig: 92%; Dog: 79%
	Human Macrophage

Image 1	MMP1 	**Sample Type:** Human Macrophange Cells **Green:** primary **Red:** phallodin **Blue:** DAPI **Yellow:** green/red **Primary Dilution:** 1:200 **Secondary Antibody:** anti-Rabbit IgG-FITC **Secondary Dilution:** 1:1000 **Image Submitted By:** Milan Fiala University of California, Los Angeles
Image 2	**Human HT1080** 	**WB Suggested Anti-MMP1 Antibody Titration:** 2.5ug/ml **Positive Control:** HT1080 cell lysate MMP1 is supported by BioGPS gene expression data to be expressed in HT1080
