

## Anti-MMP-2 Antibody [PSH11-26]

<b>Cat:</b>	YK151667
<b>Product Type:</b>	Recombinant Rabbit monoclonal IgG, primary antibodies
<b>Species reactivity:</b>	Human, Mouse, Rat
<b>Applications:</b>	WB, IF-Cell, IHC-P, FC, IP
<b>Molecular Wt:</b>	Predicted band size: 74 kDa
<b>Clone number:</b>	PSH11-26
<b>Description:</b>	<p>Proteins of the matrix metalloproteinase (MMP) family are involved in the breakdown of extracellular matrix (ECM) 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 an enzyme which degrades type IV collagen, the major structural component of basement membranes. The enzyme plays a role in endometrial menstrual breakdown, regulation of vascularization and the inflammatory response. Activation of MMP-2 requires proteolytic processing. A complex of membrane type 1 MMP (MT1-MMP/MMP14) and tissue inhibitor of metalloproteinase 2 recruits pro-MMP 2 from the extracellular milieu to the cell surface. Activation then requires an active molecule of MT1-MMP and auto catalytic cleavage. Clustering of integrin chains promotes activation of MMP-2. Another factor that will support the activation of MMP-2 is cellcell clustering. A wild-type activated leukocyte cell adhesion molecule (ALCAM) is also required to activate MMP-2.</p>
<b>Immunogen:</b>	Recombinant protein within human MMP-2 aa 1-660.
<b>Positive control:</b>	U-87 MG cell lysate, NIH/3T3 cell lysate, L6 cell lysate, Mouse skin tissue lysate, Rat skin tissue lysate, U-87 MG, NIH/3T3, L6, human colon tissue, human placenta tissue, human skin tissue, mouse colon tissue, mouse skin tissue, rat colon tissue, rat placenta tissue, rat skin tissue.
<b>Subcellular location:</b>	Secreted, extracellular space, extracellular matrix Membrane, Nucleus; Cytoplasm, Mitochondrion.
<b>Database links:</b>	SwissProt: P08253 Human   P33434 Mouse   P33436 Rat
<b>Recommended Dilutions:</b>	
WB: 1:2000; IF-cell : 1:100; IHC-P 1: 1000; IP: 1-2µg/sample; FC: 1:1000	
<b>Storage Buffer:</b>	1*PBS (pH7.4), 0.1% BSA, 40% Glycerol, 0.2% Proclean 950.
<b>Storage I nstruction:</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). It is recommended to aliquot into single-use upon delivery. Store at -20°C long term.
<b>Purity:</b>	Protein A affinity purified.

