

**bs-4593R****[ Primary Antibody ]****MMP9 Rabbit pAb****Bioss**  
**ANTIBODIES**

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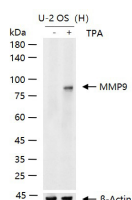
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techsupport@bioss.com.cn

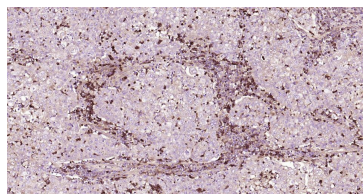
400-901-9800

**— DATASHEET —**

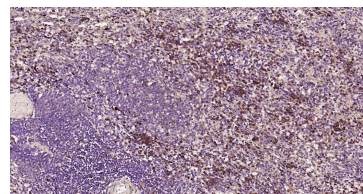
<b>Host:</b> Rabbit	<b>Isotype:</b> IgG	<b>Applications:</b> <b>WB</b> (1:500-2000)
<b>Clonality:</b> Polyclonal		<b>IHC-P</b> (1:100-500)
<b>GeneID:</b> 4318	<b>SWISS:</b> P14780	<b>IHC-F</b> (1:100-500)
<b>Target:</b> MMP9		<b>IF</b> (1:100-500)
		<b>ELISA</b> (1:5000-10000)
<b>Immunogen:</b> KLH conjugated synthetic peptide derived from human MMP9: 151-250/707.		<b>Reactivity:</b> Human
<b>Purification:</b> affinity purified by Protein A		
<b>Concentration:</b> 1mg/ml		
<b>Storage:</b> 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.		<b>Predicted MW.:</b> 78 kDa
<b>Background:</b> bs-7059P is one synthetic peptide derived from human MMP-9. 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. The enzyme encoded by this gene degrades type IV and V collagens. Studies in rhesus monkeys suggest that the enzyme is involved in IL-8-induced mobilization of hematopoietic progenitor cells from bone marrow, and murine studies suggest a role in tumor-associated tissue remodeling. [provided by RefSeq, Jul 2008].		<b>Subcellular Location:</b> Extracellular matrix

**— VALIDATION IMAGES —**

25 ug total protein per lane of various lysates (see on figure) probed with MMP9 polyclonal antibody, unconjugated (bs-4593R) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.



Paraformaldehyde-fixed, paraffin embedded Human Gastric Cancer; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with MMP9 Polyclonal Antibody, Unconjugated (bs-4593R) at 1:200 overnight at 4°C, followed by conjugation to the bs-0295G-HRP and DAB (C-0010) staining.



Paraformaldehyde-fixed, paraffin embedded Human Spleen; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with MMP9 Polyclonal Antibody, Unconjugated (bs-4593R) at 1:200 overnight at 4°C, followed by conjugation to the bs-0295G-HRP and DAB (C-0010) staining.

**— SELECTED CITATIONS —**

- **[IF=17.521]** Huan Lei. et al. A Combination Therapy Using Electrical Stimulation and Adaptive, Conductive Hydrogels Loaded with Self-Assembled Nanogels Incorporating Short Interfering RNA Promotes the Repair of Diabetic Chronic Wounds. *Advanced Science*. 2022 Sep;;2201425 IF ;Rat. 36064844
- **[IF=17.4]** Hui Yan. et al. Elaboration a ROS-responsive darutigenol prodrug nanoassemblies for inflammatory arthritis treatment. *NANO TODAY*. 2024 Apr;55:102220 WB ;Mouse. 10.1016/j.nantod.2024.102220
- **[IF=14.3]** Huan Lei. et al. Nanocomposite Hydrogel for Real-Time Wound Status Monitoring and Comprehensive Treatment. *ADV SCI*. 2024 Sep;;2405924 IF ;Rat. 39269428

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

- **[IF=14.3]** Huan Lei. et al. Nanocomposite Hydrogel for Real - Time Wound Status Monitoring and Comprehensive Treatment. advanced science. 2024 Nov;11(42):e2405924. IF ;Rat. 39269428
- **[IF=6.107]** Bei Zhang. et al. CRISPR activation screening in a mouse model for drivers of hepatocellular carcinoma growth and metastasis. ISCIENCE. 2023 Mar;26:106099 IHC ;Mouse. 36843840