

MMP9 Polyclonal Antibody

Catalog NumberPA1-4193

Product data sheet

Details		Tested Applications	Dilution *
Size	100 µg	Western Blot (WB)	1:500-1:1,000
Host/Isotope	Rabbit / IgG	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Class	Polyclonal		
Type	Antibody		
Immunogen	Synthetic peptide corresponding to residues F(31) P G D L R T N L T D R Q L(44) of human MMP-9.		
Conjugate	Unconjugated		
Form	Liquid		
Concentration	1 mg/mL		
Storage Conditions	Maintain refrigerated at 2-8°C for up to 3 months. For long term storage store at -20°C		

Product specific information

PA1-4193 detects MMP-9 in human samples. PA1-4193 has been successfully used in Western blot procedures. The PA1-4193 immunogen is a synthetic peptide corresponding to residues F(31) P G D L R T N L T D R Q L(44) of the 92 kDa human MMP-9. Maintain at 4°C for 3 months or at -20 °C for longer periods. Avoid Repeat freeze-thaw cycles.

Background/Target Information

MMP9 (matrix metalloproteinase 9, GELB, CLG4B) is a matrix metalloproteinase, a family of zinc and calcium-dependent endopeptidases that degrade extracellular matrix proteins. MMP9 is secreted as a 92kDa zymogen and cleavage of pro-MMP9 results in the active enzyme with a molecular weight of 82kDa. MMP9 has a gelatin-binding domain consisting of three fibronectin type II units, a catalytic domain containing the zinc-binding site, a proline-rich type V collagen-homologous domain and a hemopexin-like domain. MMP9 is produced by monocytes, macrophages, neutrophils, keratinocytes, fibroblasts, osteoclasts and endothelial cells, and is involved in inflammatory responses, tissue remodeling, wound healing, tumor growth and metastasis. MMP9 is supplied by bone marrow-derived cells and contributes to skin carcinogenesis. Further, MMP9 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. Studies have shown that elevated MMP9 is associated with progression of idiopathic atrial fibrillation and aortic aneurysm.

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