
MMP-9 Antibody

Subcategory: Rabbit Polyclonal Antibody

Cat. No.: 250755

Unit: 0.1 mg

Description:

Matrix metalloproteinase protein family (MMP) is involved in the breakdown of extracellular matrix in normal physiological processes such as embryonic development, reproduction, and tissue remodeling, as well as in diseases such as arthritis and metastasis. Most MMPs are secreted as inactive precursors which are activated upon cleavage by extracellular proteinases. MMP-9 is an enzyme that degrades gelatin types I and V, and collagen types IV and V, and KiSS1. MMP-9 has an essential role in local proteolysis of the extracellular matrix, in leukocyte migration and possibly in bone osteoclastic resorption. MMP-9 exists as a monomer, disulfide-linked homodimer, and as a heterodimer with a 25-kDa protein. Macrophages and transformed cell lines only produce the monomeric form. Processing of the precursor yields different active forms of 64, 67 and 82 kDa. Defects in MMP-9 may be a cause of susceptibility to lumbar disk herniation (LDH), a predominant cause of low-back pain. MMP-9 could be a disease status marker in arthritis patients.

Isotype: Rabbit Ig

Applications: E, IHC, WB

Species Reactivity: GP, H, R

Format: Each vial contains 0.1 mg IgG in 0.1 ml (1 mg/ml) of PBS pH7.4 with 0.09% sodium azide. Antibody was purified by Protein-G affinity chromatography.

Alternate Names: Matrix metalloproteinase-9; MMP-9; 92 kDa type IV collagenase; 92 kDa gelatinase; Gelatinase B; GELB

Accession No.: P14780

Antigen: KLH-conjugated synthetic peptide encompassing a sequence within the N-term region of human MMP-9.

Application Notes: Product Cat. No. 250755 does not react with mouse MMP-9. E: 1:500-1:1,000; WB: 1:200-1:500; IHC: 1:200-1:500

Storage: Store at -20°C. Minimize freeze-thaw cycles.

Product is guaranteed one year from the date of shipment.

Product Citations: [1] Ambalavanan N et al. 2013. American Journal of Physiology-Lung Cellular and Molecular Physiology. 304(3):L152-L161. PMID# 23220372. [2] Li X et al. 2011. Medical Oncology. 29(2): 714-720. PMID# 21431960. [3] Pina Y et al. 2010. Investigative Ophthalmology and Visual Science. 51:2671-2677. PMID# 20053982. [4] Bajenaru M et al. 2010. Investigative Ophthalmology and Visual Science. 51: 2860-2864. PMID# 20107171.

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