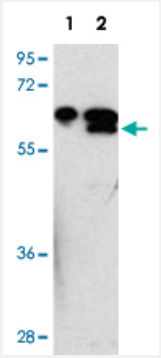
MMP3 polyclonal antibody

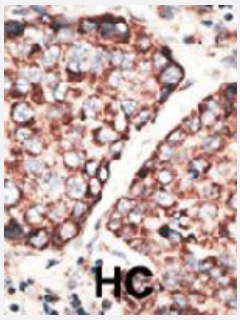
Catalog # PAB4795 Size 400 uL

Applications



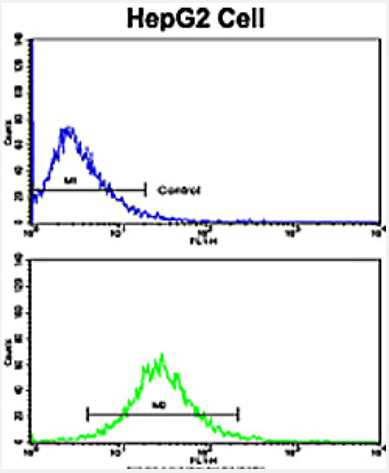
Western Blot (Transfected lysate)

Western blot analysis of MMP3 (arrow) using rabbit MMP3 polyclonal antibody (Cat # PAB4795). 293 cell lysate (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the MMP3 gene (Lane 2) (Origene Technologies).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Formalin-fixed and paraffin-embedded human hepatocellular carcinoma tissue reacted with MMP3 polyclonal antibody (Cat # PAB4795) , which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry ; clinical relevance has not been evaluated. HC = hepatocarcinoma.



Flow Cytometry

Flow cytometric analysis of HepG2 cells using MMP3 polyclonal antibody (Cat # PAB4795) (bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of MMP3.
Immunogen	A synthetic peptide (conjugated with KLH) corresponding to internal region of human MMP3.
Host	Rabbit
Reactivity	Human
Form	Liquid
Purification	Protein G purification
Recommend Usage	ELISA (1:1000) Western Blot (1:50-100) Immunohistochemistry (1:50-100) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.09% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Western Blot (Transfected lysate)

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- Enzyme-linked Immunoabsorbent Assay

- Flow Cytometry

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Gene Info — MMP3

Entrez GeneID	4314
Protein Accession#	MM3_HUMAN
Gene Name	MMP3
Gene Alias	CHDS6, MGC126102, MGC126103, MGC126104, MMP-3, SL-1, STMY, STMY1, STR1
Gene Description	matrix metallopeptidase 3 (stromelysin 1, progelatinase)
Omim ID	185250
Gene Ontology	Hyperlink
Gene Summary	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 an enzyme which degrades fibronectin, laminin, collagens III, IV, IX, and X, and cartilage proteoglycans. The enzyme is thought to be involved in wound repair, progression of atherosclerosis, and tumor initiation. The gene is part of a cluster of MMP genes which localize to chromosome 11q22.3. [provided by RefSeq
Other Designations	matrix metalloproteinase 3|matrix metalloproteinase 3 (stromelysin 1, progelatinase)|progelatinase|proteoglycanase|stromelysin 1|transin-1

Publication Reference

- Stromelysin-1/matrix metalloproteinase-3 (MMP-3) expression accounts for invasive properties of human astrocytoma cell lines.

  Mercapide J, Lopez De Cicco R, Castresana JS, Klein-Szanto AJ.

  International Journal of Cancer 2003 Sep; 106(5):676.

  Application: IHC-P, WB, Human, Rat, Human glioma cells, Rat tracheas, SW1783, U118MG, U87MG cells

- Matrix metalloproteinases as novel disease markers in Takayasu arteritis.

  Matsuyama A, Sakai N, Ishigami M, Hiraoka H, Kashine S, Hirata A, Nakamura T, Yamashita S, Matsuzawa Y.

  Circulation 2003 Sep; 108(12):1469.

  Application: ELISA, Human, Human serum

- Cleavage of the matricellular protein SPARC by matrix metalloproteinase 3 produces polypeptides that influence angiogenesis.

  Sage EH, Reed M, Funk SE, Truong T, Steadele M, Puolakkainen P, Maurice DH, Bassuk JA.

  The Journal of Biological Chemistry 2003 Jul; 278(39):37849.

Disease

- Acute Disease
- Adenocarcinoma
- Adenomatous Polyps
- Aggressive Periodontitis
- alpha 1-Antitrypsin Deficiency
- Alpha-1-antitrypsin deficiency
- Alveolar Bone Loss
- Alzheimer disease
- Amyotrophic lateral sclerosis
- Aneurysm
- Angina
- Angina Pectoris
- Aortic Aneurysm
- Aortic Diseases
- Arterial Occlusive Diseases
- Arthritis
- Astrocytoma
- Atherosclerosis
- Bipolar Disorder
- Brain Infarction

- Brain Ischemia
- Brain Neoplasms
- Breast cancer
- Breast Neoplasms
- Calcinosis
- Carcinoma
- Cardiomyopathy
- Cardiovascular Diseases
- Carotid Artery
- Carotid Artery Diseases
- Carotid Stenosis
- Celiac Disease
- Cerebral Arterial Diseases
- Cerebral Infarction
- Cerebral Palsy
- Cerebrovascular Accident
- Cholangitis
- Chorioamnionitis
- Chronic Disease
- Chronic Periodontitis
- Cleft Lip
- Cleft Palate

- Colitis
- Colorectal Neoplasms
- Connective Tissue Diseases

- Constriction
- Coronary Aneurysm
- Coronary Artery Disease
- Coronary Disease
- Coronary Restenosis
- Coronary Stenosis
- Coronary Vasospasm
- Crohn Disease
- Death
- Dementia
- Diabetes Complications
- Diabetes Mellitus
- Diabetic Angiopathies
- Disease Progression
- Disease Susceptibility
- Duodenal Ulcer
- Edema
- Endometrial Neoplasms
- Endometriosis
- Esophageal Neoplasms
- Exfoliation Syndrome
- Fetal Diseases
- Fetal Membranes
- Genetic Predisposition to Disease
- Gingival Overgrowth
- Glaucoma

- Graft Occlusion
- Head and Neck Neoplasms
- Heart Failure
- Helicobacter Infections
- Hepatitis B
- Hepatitis C
- Hypercholesterolemia
- Hyperlipidemias
- Hypertension
- Hypertrophy
- Infection
- Inflammation
- Intervertebral Disk Displacement
- Intracranial Arteriosclerosis
- Intracranial Hemorrhages
- Kidney Failure
- Kidney Neoplasms
- Leukoaraiosis
- Liver Cirrhosis
- Liver Neoplasms
- Lung Neoplasms
- Lupus Erythematosus
- Lymphatic Metastasis
- Lymphoma
- Macular Degeneration
- Malignant melanoma

- Melanoma
- Metabolic Syndrome X
- Migraine Disorders
- Mitral Valve Insufficiency
- Mitral Valve Prolapse
- Mouth Neoplasms
- Mucocutaneous Lymph Node Syndrome
- Multiple Sclerosis
- Musculoskeletal Diseases
- Myocardial Infarction
- Myopia
- Nasopharyngeal Neoplasms
- Neoplasm Invasiveness
- Neoplasms
- Obesity
- Obstetric Labor
- Occupational Diseases
- Oral Submucous Fibrosis
- Osteoporosis
- Ovarian cancer
- Ovarian Neoplasms
- Parkinson disease
- Periodontal Attachment Loss
- Periodontal Pocket
- Periodontitis
- Peripheral Vascular Diseases

- Pre-Eclampsia
- Pregnancy Complications
- Premature Birth
- Psychiatric Status Rating Scales
- Pulmonary Disease
- Recurrence
- Renal Insufficiency
- Rheumatoid Nodule
- Schizophrenia
- Scoliosis
- Skin Diseases
- Skin Neoplasms
- Spinal Diseases
- Spondylitis
- Stomach Neoplasms
- Stomach Ulcer
- Stroke
- Subarachnoid Hemorrhage
- Syndrome
- Tendinopathy
- Thrombosis
- Urinary Bladder Neoplasms
- Urinary Incontinence
- Varicose Veins
- Vascular Diseases
- Ventricular Dysfunction

- Werner syndrome