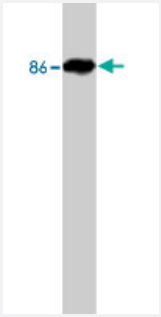
MMP9 monoclonal antibody, clone 2C3

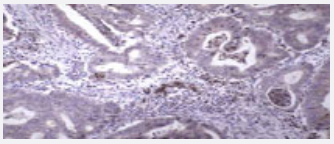
Catalog # MAB1952 Size 200 ug

Applications



Western Blot (Recombinant protein)

Western blot using MMP9 monoclonal antibody, clone 2C3 (Cat # MAB1952) on recombinant human proenzyme MMP9 (400 ng/lane).



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

Immunohistochemical staining of paraffin embedded human colon carcinomausing MMP9 monoclonal antibody, clone 2C3 (Cat # MAB1952). Antigen retreival using 10mM citrate buffer and microwave method was used.

Specification

Product Description	Mouse monoclonal antibody raised against synthetic peptide of MMP9.
Immunogen	A synthetic peptide corresponding to C-terminus of human MMP9.
Host	Mouse
Reactivity	Human
Form	Liquid
Isotype	IgG1
Quality Control Testing	Antibody Reactive Against Synthetic Peptide.

Recommend Usage	Western blot (1 to 2 ug/mL) Immunohistochemistry on formalin to fixed/paraffin to embedded tissues (1 to 5 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.08% sodium azide)
Storage Instruction	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 (Recombinant protein)

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Gene Info — MMP9

Entrez GeneID	4318
Gene Name	MMP9
Gene Alias	CLG4B, GELB, MMP-9
Gene Description	matrix metallopeptidase 9 (gelatinase B, 92kDa gelatinase, 92kDa type IV collagenase)
Omim ID	120361
Gene Ontology	Hyperlink
Gene Summary	Proteins of the matrix metalloproteinase (MMP) family are involved in the breakdown of extracellul ar matrix in normal physiological processes, such as embryonic development, reproduction, and ti ssue 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 proteinase s. The enzyme encoded by this gene degrades type IV and V collagens. Studies in rhesus monke ys suggest that the enzyme is involved in IL-8-induced mobilization of hematopoietic progenitor ce lls from bone marrow, and murine studies suggest a role in tumor-associated tissue remodeling. [provided by RefSeq

Other Designations	92kD type IV collagenase|OTTHUMP00000031674|gelatinase B|macrophage gelatinase|matrix metalloproteinase 9|matrix metalloproteinase 9 (gelatinase B, 92kD gelatinase, 92kD type IV collagenase)|matrix metalloproteinase 9 (gelatinase B, 92kDa gelatinase, 92kD

Publication Reference

- Circulating MMP2 and MMP9 in breast cancer -- potential role in classification of patients into low risk, high risk, benign disease and breast cancer categories.

  Somiari SB, Somiari RI, Heckman CM, Olsen CH, Jordan RM, Russell SJ, Shriver CD.

  International Journal of Cancer 2006 Sep; 119(6):1403.

- Matrix metalloproteinase 2 (MMP2) and MMP9 secreted by erythropoietin-activated endothelial cells promote neural progenitor cell migration.

  Wang L, Zhang ZG, Zhang RL, Gregg SR, Hozeska-Solgot A, LeTourneau Y, Wang Y, Chopp M.

  Journal of Neuroscience 2006 May; 26(22):5996.

- Increased plasma MMP9 in integrin alpha1-null mice enhances lung metastasis of colon carcinoma cells.

  Chen X, Su Y, Fingleton B, Acuff H, Matrisian LM, Zent R, Pozzi A.

  International Journal of Cancer 2005 Aug; 116(1):52.

  Application: Func, Mouse, Mouse plasma

Pathway

- Bladder cancer
- Leukocyte transendothelial migration
- Pathways in cancer

Disease

- Acquired Immunodeficiency Syndrome
- Acute Disease
- Adenocarcinoma
- Airway Remodeling

- Alcoholism
- Alzheimer disease
- Amyotrophic lateral sclerosis
- Aneurysm
- Angina
- Angina Pectoris
- Aortic Aneurysm
- Arteriosclerosis
- Arthritis
- Asthma
- Astrocytoma
- Atherosclerosis
- Atrial Fibrillation
- Behcet Syndrome
- Bipolar Disorder
- Brain Ischemia
- Brain Neoplasms
- Breast cancer
- Breast Neoplasms
- Bronchiectasis
- Carcinoma
- Cardiomyopathies
- Cardiomyopathy
- Cardiovascular Diseases
- Carotid Artery
- Carotid Artery Diseases

- Carotid Stenosis
- Cerebral Hemorrhage
- Cerebral Infarction
- Cerebrovascular Accident
- Cerebrovascular Disorders
- Chorioamnionitis
- Chronic Disease
- Cicatrix
- Cleft Lip
- Cleft Palate
- Cognition
- Colitis
- Colorectal Neoplasms
- Connective Tissue Diseases
- Constriction
- Coronary Aneurysm
- Coronary Artery Disease
- Coronary Disease
- Coronary Restenosis
- Crohn Disease
- Delayed Graft Function
- Dementia
- Diabetes Complications
- Diabetes Mellitus
- Diabetic Angiopathies
- Diabetic Nephropathies

- Diabetic Retinopathy
- Disease
- Disease Progression
- Disease Susceptibility
- Ductus Arteriosus
- Duodenal Ulcer
- Edema
- Endometrial Neoplasms
- Endometriosis
- Epilepsy
- Esophageal Neoplasms
- Exfoliation Syndrome
- Fetal Diseases
- Fetal Growth Retardation
- Fetal Membranes
- Fibrosis
- Fractures
- Gastritis
- Genetic Predisposition to Disease
- Giant Cell Arteritis
- Gingivitis
- Glaucoma
- Glomerulonephritis
- Graft Occlusion
- Guillain-Barre Syndrome
- Heart Diseases

- Heart Failure
- Helicobacter Infections
- Hemorrhage
- Hepatitis B
- Hepatitis C
- Hypersensitivity
- Hypertension
- Hypertrophy
- Infant
- Infection
- Inflammation
- Intervertebral Disk Displacement
- Intracranial Aneurysm
- Intracranial Arteriosclerosis
- Intracranial Hemorrhages
- Kidney Failure
- Leiomyoma
- Leukoaraiosis
- Liver Cirrhosis
- Liver Neoplasms
- Long QT syndrome
- Lung Neoplasms
- Lupus Erythematosus
- Lymphatic Metastasis
- Lymphoma
- Macular Degeneration

- Malignant melanoma
- Melanoma
- Metabolic Syndrome X
- Metaplasia
- Mouth Neoplasms
- Mucocutaneous Lymph Node Syndrome
- Multiple Sclerosis
- Musculoskeletal Diseases
- Myocardial Infarction
- Myopia
- Nasal Polyps
- Nasopharyngeal Neoplasms
- Neoplasm Invasiveness
- Neoplasm Metastasis
- Neoplasm Recurrence
- Neoplasms
- Neovascularization
- Neuropsychological Tests
- Obesity
- Obstetric Labor
- Oral Submucous Fibrosis
- Osteoarthritis
- Osteoporosis
- Ovarian cancer
- Ovarian Neoplasms
- Paraparesis

- Pelvic Organ Prolapse
- Periodontal Attachment Loss
- Periodontitis
- Peripheral Vascular Diseases
- Pre-Eclampsia
- Pregnancy Complications
- Premature Birth
- Prostate cancer
- Prostatic Neoplasms
- Pulmonary Disease
- Pulmonary Emphysema
- Recurrence
- Rheumatoid Nodule
- Schizophrenia
- Scleroderma
- Seizures
- Sinusitis
- Skin Diseases
- Skin Neoplasms
- Spinal Diseases
- Stomach Neoplasms
- Stomach Ulcer
- Stroke
- Subarachnoid Hemorrhage
- Thrombosis
- Trachoma

- Tuberculosis
- Urinary Bladder Neoplasms
- Uterine Cervical Neoplasms
- Uterine Diseases
- Uterine Neoplasms
- Vaginosis
- Ventricular Dysfunction
- Ventricular Outflow Obstruction
- Vertebral Artery Dissection