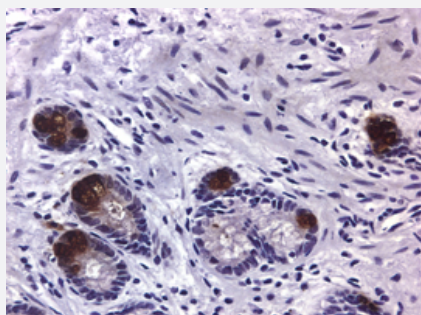


MMP9 monoclonal antibody, clone SB15c

Catalog # MAB3332 Size 100 ug

Applications



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

Paraffin embedded sections of human colon were stained with MMP9 monoclonal antibody, clone SB15c (Cat # MAB3332). Goat Anti-Mouse IgG2a, human ads-BIOT and Streptavidin-HRP were used and then developed with DAB.

Specification

Product Description	Mouse monoclonal antibody raised against recombinant MMP9.
Immunogen	Recombinant protein corresponding to human MMP9.
Host	Mouse
Reactivity	Human
Specificity	human MMP-9, Does not cross react to human MMP-1, MMP-2 or MMP-3.
Form	Liquid
Isotype	IgG2a
Recommend Usage	ELISA (1:3000-1:8000) Immunohistochemistry (2 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In 100 mM BBS, pH 8.2
Storage Instruction	Store at 4°C.

Applications

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

Paraffin embedded sections of human colon were stained with MMP9 monoclonal antibody, clone SB15c (Cat # MAB3332). Goat Anti-Mouse IgG2a, human ads-BIOT and Streptavidin-HRP were used and then developed with DAB.

- Immunohistochemistry (Frozen sections)
- Enzyme-linked Immunoabsorbent Assay

Gene Info — MMP9

Entrez GeneID [4318](#)

Gene Name MMP9

Gene Alias CLG4B, GELB, MMP-9

Gene Description matrix metalloproteinase 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 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]

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

- [Matrix metalloproteinase 9 protects mice from anti-glomerular basement membrane nephritis through its fibrinolytic activity.](#)

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- [Fibrillin degradation by matrix metalloproteinases: implications for connective tissue remodelling.](#)

Ashworth JL, Murphy G, Rock MJ, Sherratt MJ, Shapiro SD, Shuttleworth CA, Kielty CM.

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- [Degradation of interleukin 1beta by matrix metalloproteinases.](#)

Ito A, Mukaiyama A, Itoh Y, Nagase H, Thogersen IB, Enghild JJ, Sasaguri Y, Mori Y.

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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](#)
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- [Lupus Erythematosus](#)
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- [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](#)
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- [Neoplasm Metastasis](#)
- [Neoplasm Recurrence](#)
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- [Obstetric Labor](#)
- [Oral Submucous Fibrosis](#)
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- [Osteoporosis](#)
- [Ovarian cancer](#)
- [Ovarian Neoplasms](#)
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- [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](#)
- [Vaginitis](#)
- [Ventricular Dysfunction](#)

- [Ventricular Outflow Obstruction](#)
- [Vertebral Artery Dissection](#)