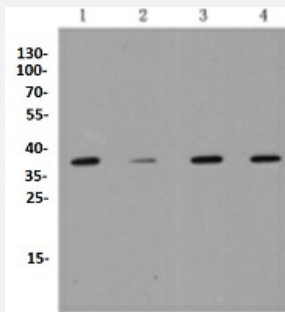


RecomAb™

MMP12 recombinant monoclonal antibody

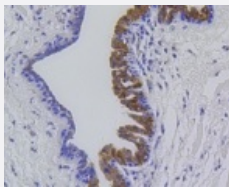
Catalog # RAB02710 Size 100 uL

Applications



Western Blot (Cell lysate)

Western blot analysis of Lane1:A549 whole cell lysate Lane2:Hela whole cell lysate Lane3:MCF7 whole cell lysate Lane4:THP1 whole cell lysate with MMP12 recombinant monoclonal antibody (Cat # RAB02710) at 1:1000 dilution.



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

Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using MMP12 recombinant monoclonal antibody (Cat # RAB02710). Counter stained with hematoxylin.

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against MMP12.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against recombinant MMP12.
Theoretical MW (kDa)	40, 54
Reactivity	Human, Mouse, Rat
Specificity	This antibody detects endogenous levels of MMP12 and does not cross-react with related proteins.

Form	Liquid
Purification	Protein A purification
Isotype	IgG
Recommend Usage	Flow Cytometry (1:50-1:100) Immunocytochemistry (1:50-1:200) Immunofluorescence (1:50-1:200) Immunohistochemistry (1:50-1:200) Western Blot (1:1000-1:2000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH7.2 (50% glycerol and 0.02% sodium azide)
Storage Instruction	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze-thaw cycles.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

Western blot analysis of Lane1:A549 whole cell lysate Lane2:Hela whole cell lysate Lane3:MCF7 whole cell lysate Lane4:THP1 whole cell lysate with MMP12 recombinant monoclonal antibody (Cat # RAB02710) at 1:1000 dilution.

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- Immunocytochemistry

- Immunofluorescence

- Flow Cytometry

Gene Info — MMP12

Entrez GeneID [4321](#)

Protein Accession# [P39900](#)

Gene Name	MMP12
Gene Alias	HME, MGC138506, MME
Gene Description	matrix metalloproteinase 12 (macrophage elastase)
Omim ID	601046
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. It is thought that the protein encoded by this gene is cleaved at both ends to yield the active enzyme, but this processing has not been fully described. The enzyme degrades soluble and insoluble elastin. It may play a role in aneurysm formation and studies in mice suggest a role in the development of emphysema. The gene is part of a cluster of MMP genes which localize to chromosome 11q22.3. [provided by RefSeq]
Other Designations	macrophage elastase macrophage metalloelastase matrix metalloproteinase 12 matrix metalloproteinase 12 (macrophage elastase)

Disease

- [Acute Disease](#)
- [Adenocarcinoma](#)
- [alpha 1-Antitrypsin Deficiency](#)
- [Alpha-1-antitrypsin deficiency](#)
- [Amyotrophic lateral sclerosis](#)
- [Anoxia](#)
- [Aortic Aneurysm](#)
- [Arthritis](#)
- [Asthma](#)
- [Atherosclerosis](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Carcinoma](#)

- [Cardiovascular Diseases](#)
- [Carotid Artery](#)
- [Chorioamnionitis](#)
- [Chronic Disease](#)
- [Colorectal Neoplasms](#)
- [Coronary Aneurysm](#)
- [Coronary Artery Disease](#)
- [Diabetes Mellitus](#)
- [Disease Progression](#)
- [Edema](#)
- [Endometriosis](#)
- [Esophageal Neoplasms](#)
- [Fetal Membranes](#)
- [Fibrosis](#)
- [Genetic Predisposition to Disease](#)
- [Glomerulonephritis](#)
- [Hepatitis C](#)
- [Kidney Failure](#)
- [Liver Cirrhosis](#)
- [Lung Neoplasms](#)
- [Metabolic Syndrome X](#)
- [Mucocutaneous Lymph Node Syndrome](#)
- [Multiple Sclerosis](#)
- [Nasopharyngeal Neoplasms](#)
- [Neoplasm Invasiveness](#)

- [Neoplasms](#)
- [Obstetric Labor](#)
- [Ovarian cancer](#)
- [Ovarian Neoplasms](#)
- [Periodontitis](#)
- [Pre-Eclampsia](#)
- [Premature Birth](#)
- [Pulmonary Disease](#)
- [Renal Insufficiency](#)
- [Stomach Neoplasms](#)
- [Subarachnoid Hemorrhage](#)
- [Tuberculosis](#)
- [Urinary Bladder Neoplasms](#)
- [Varicose Ulcer](#)
- [Werner syndrome](#)