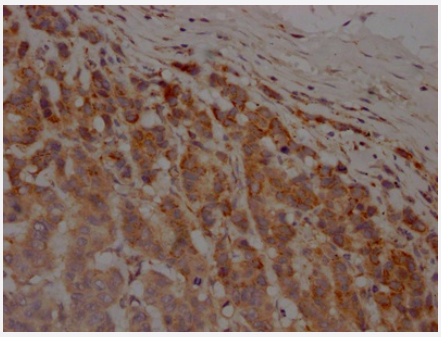
RecomAb™

MMP12 recombinant monoclonal antibody, clone 2G3

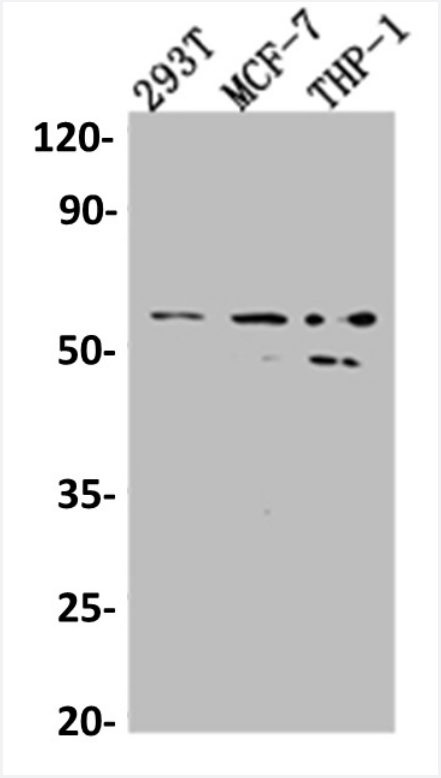
Catalog # RAB07428 Size 100 uL

Applications



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

Immunohistochemical analysis of paraffin-embedded human breast cancer using MMP12 recombinant monoclonal antibody, clone 2G3 (Cat # RAB07428) on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-rabbit IgG polymer labeled by HRP and visualized using 0.05% DAB.



Western Blot (Cell lysate)

Western blot analysis of 293T whole cell lysate, MCF-7 whole cell lysate, THP-1 whole cell lysate with MMP12 recombinant monoclonal antibody, clone 2G3 (Cat # RAB07428).

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Specification

Product Description	Rabbit recombinant monoclonal antibody raised against human MMP12.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against a synthetic peptide corresponding to human MMP12.
Theoretical MW (kDa)	Calculated MW: 55
Reactivity	Human
Form	Liquid
Preparation Method	Mammalian cell (HEK293) expression system
Purification	Affinity chromatography purification
Isotype	IgG
Recommend Usage	ELISA Immunohistochemistry (1:50-1:200) Western Blot (1:500-1:5000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH7.4 (150 mM NaCl, 0.02% sodium azide and 50% glycerol)
Storage Instruction	Store at -20°C or -80°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

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

  Immunohistochemical analysis of paraffin-embedded human breast cancer using MMP12 recombinant monoclonal antibody, clone 2G3 (Cat # RAB07428) on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-rabbit IgG polymer labeled by HRP and visualized using 0.05% DAB.

- Enzyme-linked Immunoabsorbent Assay

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- Western Blot (Cell lysate)

  Western blot analysis of 293T whole cell lysate, MCF-7 whole cell lysate, THP-1 whole cell lysate with MMP12 recombinant monoclonal antibody, clone 2G3 (Cat # RAB07428).

Gene Info — MMP12

Entrez GeneID	4321
Protein Accession#	P39900
Gene Name	MMP12
Gene Alias	HME, MGC138506, MME
Gene Description	matrix metallopeptidase 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

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- 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

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- 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

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