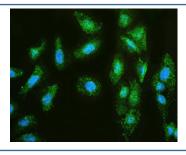


# MMP1 Antibody (RQ5503)

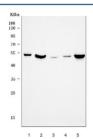
Catalog No.	Formulation	Size
RQ5503	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

## **Bulk quote request**

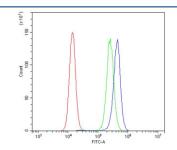
Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
UniProt	P03956
Applications	Western Blot: 0.25-0.5ug/ml Immunohistochemistry (FFPE): 1-2ug/ml Immunofluorescence: 2-4ug/ml Flow Cytometry: 1-3ug/million cells Direct ELISA: 0.1-0.5ug/ml
Limitations	This MMP1 antibody is available for research use only.



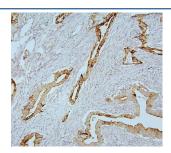
Immunofluorescent staining of FFPE human U-2 OS cells with MMP1 antibody (green) and DAPI (blue). HIER: boil tissue sections in pH6, 10mM citrate buffer, for 20 min and allow to cool before testing.



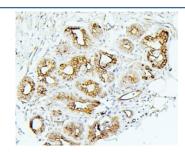
Western blot testing of human 1) placenta, 2) Caco-2, 3) K562, 4) U-2 OS and 5) MCF7 cell lysate with MMP1 antibody. Predicted molecular weight ~54 kDa (pro form).



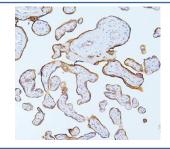
Flow cytometry testing of human PC-3 cells with MMP1 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= MMP1 antibody.



IHC staining of FFPE human intestinal cancer with MMP1 antibody. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 20 min and allow to cool before testing.



IHC staining of FFPE human breast cancer with MMP1 antibody. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 20 min and allow to cool before testing.



IHC staining of FFPE human placenta with MMP1 antibody. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 20 min and allow to cool before testing.

### **Description**

Matrix metalloproteinase-1 (MMP-1), also known as interstitial collagenase and fibroblast collagenase, is an enzyme that in humans is encoded by the MMP1 gene. MMP-1 was the first vertebrate collagenase both purified to homogeneity as a protein, and cloned as a cDNA. 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 a secreted enzyme which breaks down the interstitial collagens, types I, II, and III. It is part of a cluster of MMP genes which localize to chromosome 11q22.3. Alternative splicing results in multiple transcript variants.

# **Application Notes**

Optimal dilution of the MMP1 antibody should be determined by the researcher.

### **Immunogen**

A human recombinant protein (amino acids D124-N469) was used as the immunogen for the MMP1 antibody.

# Storage After reconstitution, the MMP1 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.