### For Research Use Only

# MMP2 Monoclonal antibody

Catalog Number: 66366-1-lg Featured Product 75 Publications



**Basic Information** 

Catalog Number: GenBank Accession Number:

66366-1-lg BC002576

GeneID (NCBI): Size: 150ul, Concentration: 1000 ug/ml by 4313

Nanodrop and 510 ug/ml by Bradford UNIPROT ID:

method using BSA as the standard; P08253

Source: Full Name:

Mouse matrix metallopeptidase 2 (gelatinase A, 72kDa gelatinase, Isotype: lgG1 72kDa type IV collagenase)

Calculated MW: Immunogen Catalog Number:

AG25039 72 kDa

Observed MW:

55-74 kDa

**Applications** 

**Tested Applications:** 

WB, IHC, FC (Intra), ELISA

**Cited Applications:** 

WB, IHC, IF

Species Specificity:

human, mouse, rat, pig

**Cited Species:** 

human, mouse, rat, pig

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

WB: U-251 cells, human placenta tissue, MCF-7 cells, pig heart tissue, rat heart tissue, U-87 MG cells

**Purification Method:** 

Protein A purification

Recommended Dilutions:

WB 1:1000-1:6000

IHC 1:150-1:600

CloneNo.:

2B10D1

IHC: human breast cancer tissue,

# **Background Information**

MMP2, also named as CLG4A, Gelatinase Am, TBE-1 and PEX, belongs to the peptidase M10A family. It is ubiquitinous metalloproteinase that is involved in diverse functions such as remodeling of the vasculature, angiogenesis, tissue repair, tumor invasion, inflammation, and atherosclerotic plaque rupture. MMP2 contributes to myocardial oxidative stress by regulating the activity of GSK3beta. It cleaves GSK3beta in vitro. MMP2 can be cleaved into PEX chain(~60kd). Western blot analysis showed that the 72 kDa and 62 kDa proteinase activities were pro-MMP2 and the active enzyme, respectively (PMID:11112697).

#### **Notable Publications**

Author	Pubmed ID	Journal	Application
Wenjing Guo	33117682	Front Oncol	WB
Wei Zhou	34646828	Front Cell Dev Biol	WB
Yu-Feng Liu	34603071	Front Physiol	WB,IHC

Storage

Store at -20°C. Stable for one year after shipment.

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

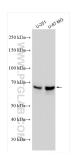
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

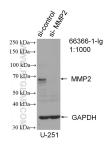
E: proteintech@ptglab.com W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

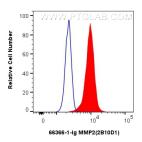
## **Selected Validation Data**



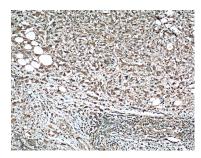
Various lysates were subjected to SDS PAGE followed by western blot with 66366-1-1g (MMP2 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



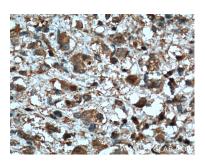
WB result of MMP2 antibody (66366-1-Ig; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-MMP2 transfected U-251 cells.



1x10^6 HeLa cells were intracellularly stained with 0.4 ug MMP2 Monoclonal antibody (66366-1-1g, Clone:2B10D1) and CoraLite® 488-Conjugated Goat Anti-Mouse IgG(H+L) (SA00013-1)(red), or 0.4 ug Mouse IgG1 isotype control Mouse McAb (66360-1-Ig, Clone: 1F8D3) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Immunohistochemical analysis of paraffinembedded human breast cancer tissue slide using 66366-1-lg (MMP2 antibody) at dilution of 1:300 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded human breast cancer tissue slide using 6366-1-Ig (MMP2 antibody) at dilution of 1:300 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).