

MMP2 Polyclonal Antibody

Catalog number: 10373-2-AP

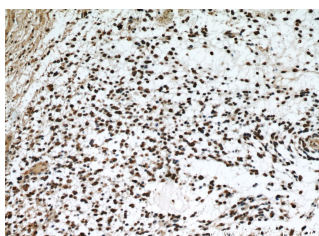
Size: 37 µg/150 µl

Source: Rabbit

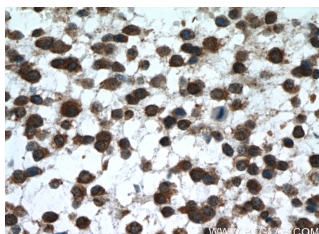
Isotype: IgG

Synonyms:

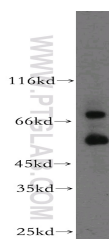
MMP2; 72 kDa gelatinase, 72 kDa type IV collagenase, CLG4, CLG4A, Gelatinase A, Matrix metalloproteinase 2, MMP 2, MMP II, MMP2, MONA, TBE 1



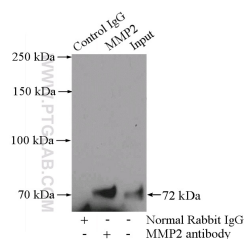
Immunohistochemical of paraffin-embedded human gliomas using 10373-2-AP (MMP2 antibody) at dilution of 1:50 (under 10x lens)



Immunohistochemical of paraffin-embedded human gliomas using 10373-2-AP (MMP2 antibody) at dilution of 1:50 (under 40x lens)



MCF7 cells were subjected to SDS PAGE followed by western blot with 10373-2-AP (MMP2 antibody) at dilution of 1:500



Background

MMP2, also named as CLG4A, Gelatinase Am, TBE-1 and PEX, belongs to the peptidase M10A family. It is ubiquitous 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).

Applications

Tested applications:	ELISA, WB, IHC, IP
Cited applications:	IF, IHC, IP, WB
Species specificity:	Human, Mouse, Rat, Zebrafish; other species not tested.
Cited species:	Human, mouse, rat
Calculated MMP2 MW:	72 kDa
Observed MMP2 MW:	72 kDa, 60 kDa
Positive WB detected in	MCF7 cells, A375 cells, A431 cells, HepG2 cells, HT-1080 cells, MDA-MB-453s cells, mouse heart tissue, mouse liver tissue, mouse lung tissue, rat heart tissue, SGC-7901 cells
Positive IP detected in	NIH/3T3 cells
Positive IHC detected in	Human gliomas tissue, human breast cancer tissue, human heart tissue, human oesophagus tissue, human placenta tissue
Recommended dilution:	WB: 1:200-1:2000 IP: 1:200-1:1000 IHC: 1:20-1:200

Application key: WB = Western blotting, IHC = Immunohistochemistry, IF = Immunofluorescence, IP = Immunoprecipitation

Immunogen information

Immunogen:	Ag0549
GenBank accession number:	BC002576
Gene ID (NCBI):	4313
Full name:	Matrix metalloproteinase 2 (gelatinase A, 72kDa gelatinase, 72kDa type IV collagenase)

Product information

Purification method:	Antigen affinity purification
Storage:	PBS with 0.1% sodium azide and 50% glycerol pH 7.3. Store at -20°C.

IP Result of anti-MMP2
(IP:10373-2-AP, 4ug;
Detection:10373-2-AP 1:300)
with NIH/3T3 cells lysate
1200ug.