

For Research Use Only

MMP2 Recombinant antibody

Catalog Number: 81515-2-RR



Basic Information

Catalog Number:

81515-2-RR

Size:

100ul, Concentration: 300 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG0549

GenBank Accession Number:

BC002576

GeneID (NCBI):

4313

UNIPROT ID:

P08253

Full Name:

matrix metalloproteinase 2
(gelatinase A, 72kDa gelatinase,
72kDa type IV collagenase)

Calculated MW:

72 kDa

Observed MW:

62-72 kDa

Purification Method:

Protein A purification

CloneNo.:

240131F5

Recommended Dilutions:

IF/ICC 1:50-1:500

Applications

Tested Applications:

IF/ICC, FC (Intra), ELISA

Species Specificity:

human

Positive Controls:

IF/ICC : HepG2 cells,

Background Information

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 62/65 kDa proteinase activities were pro-MMP2 and the active enzyme, respectively (PMID:11112697, PMID: 30867536).

Storage

Storage:

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

Storage Buffer:

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

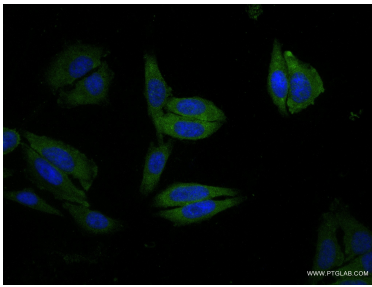
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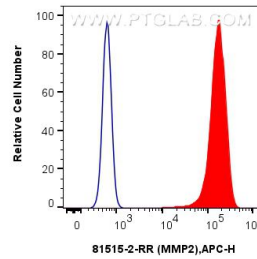
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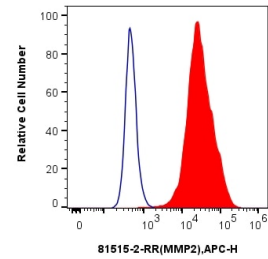
Selected Validation Data



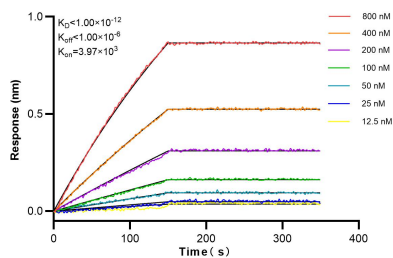
Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using MMP2 antibody (81515-2-RR, Clone: 240131F5) at dilution of 1:100 and CoraLite@488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).



1x10⁶ HeLa cells were intracellularly stained with 0.25 ug MMP2 Recombinant antibody (81515-2-RR, Clone:240131F5) and APC-Conjugated Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug Isotype Control (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



1x10⁶ HT-29 cells were intracellularly stained with 0.25 ug MMP2 Recombinant Antibody (81515-2-RR, Clone:240131F5) and APC-Conjugated Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug Isotype Control (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Biolayer interferometry (BLI) kinetic assays of 81515-2-RR against Human MMP2 were performed. The affinity constant is below 1 pM.