For Research Use Only

CoraLite®594-conjugated MMP2 Monoclonal antibody

Catalog Number:CL594-66366 Featured Product

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Antibodies | ELISA kits | Proteins
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Basic Information

Catalog Number:
CL594-66366

Concentration:
1000 μg/ml

Source:
Mouse

Isotype:
IgG1

Immunogen Catalog Number:
AG25039

GenBank Accession Number:
BC002576

GeneID (NCBI):
4313

UNIPROT ID:
P08253

Full Name:
matrix metallopeptidase 2 (gelatinase A, 72kDa gelatinase, 72kDa type IV collagenase)

Calculated MW:
72 kDa

Observed MW:
55-74 kDa

Purification Method:
Protein G purification

CloneNo.:
2B10D1

Recommended Dilutions:
FC (Intra): 0.40 ug per 10^6 cells in a 100 µl suspension

Excitation/Emission maxima wavelengths:
588 nm / 604 nm

Applications

Tested Applications:
FC (Intra)

Species Specificity:
human, mouse, rat, pig

Positive Controls:

FC (Intra) : PC-3 cells,

Background Information

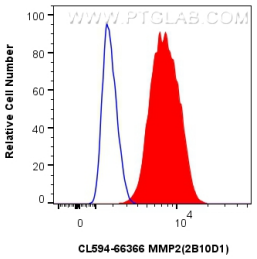
MMP2, also named as CLG4A, Gelatinase Am, TBE-1 and PEX, belongs to the peptidase M10A family. It is ubiquitinous metalloproteinase that is involved in diverse functions such as remodeling of the vasculature, angiogenesis, tissue repair, tumor invasion, inflammation, and atherosclerotic plaque rupture. 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).

Storage

Storage:
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.
Storage Buffer:
PBS with 50% glycerol, 0.05% Proclin300, 0.5% BSA, pH7.3
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

Selected Validation Data



1x10^6 PC-3 cells were intracellularly stained with 0.4 ug Coralite®594 Mmp2 Monoclonal Antibody (CL594-66366, Clone:2B10D1)(red), or 0.4 ug CoraLite®594 Mouse IgG1 Isotype Control (1F8D3) (CL594-66360-1, Clone: 1F8D3) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).