MMP-2 Antibody

For Research Use Only. Not For Use In Diagnostic Procedures.

Applications | Species Cross-Reactivity | Molecular Wt. | Source |
---|---|---|---|
Western Blotting | H, (M, R) | 64, 72 kDa | Rabbit** |
Endogenous |

Background: Matrix metalloproteinase (MMP) is a family of proteases that target many extracellular proteins including other proteases, growth factors, cell surface receptors and adhesion molecules (1). Among the family members, MMP-2, MMP-3, MMP-7 and MMP-9 have been characterized as important factors for normal tissue remodeling during embryo development and wound healing, tumor invasion, angiogenesis, carcinogenesis and apoptosis (2-4). MMP activity is correlated with cancer development (2). One mechanism of MMP regulation is control of its expression during transcription (5). Once synthesized, MMP exists as a latent proenzyme. Maximum MMP activity requires proteolytic cleavage to generate active MMPs by releasing the inhibitory propeptide domain from the full length protein (5).

Specificity/Sensitivity: MMP-2 Antibody detects full length (proenzyme, 72 kDa) and cleaved (active enzyme, 64 kDa) MMP-2.

Source/Purification: Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Lys116 of human MMP-2. Antibodies are purified by protein A and peptide affinity chromatography.

Background References:

IMPORTANT: For western blots, incubate membrane with diluted antibody in 5% w/v BSA, 1X TBS, 0.1% Tween-20 at 4°C with gentle shaking, overnight.

Storage: Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at –20°C. Do not aliquot the antibody.

*Species cross-reactivity is determined by western blot.

**Anti-rabbit secondary antibodies must be used to detect this antibody.

Recommended Antibody Dilutions: Western Blotting 1:1000

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