MMP-9 Antibody

Applications | Species Cross-Reactivity* | Molecular Wt. | Source | Source/Purification
---|---|---|---|---
W Endogenous | H, (R) | 84, 92 kDa | Rabbit** | Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Lys115 of human MMP-9. Antibodies are purified by protein A and peptide affinity chromatography.

**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-9 Antibody detects full length (proenzyme, 92 kDa) and cleaved (active enzyme, 84 kDa) MMP-9.

**Source/Purification:** Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Lys115 of human MMP-9. Antibodies are purified by protein A and peptide affinity chromatography.

**Background References:**

**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.

**Recommended Antibody Dilutions:** Western Blotting 1:1000

For application specific protocols please see the web page for this product at www.cellsignal.com.

Please visit www.cellsignal.com for a complete listing of recommended companion products.

**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.