**BACKGROUND**

The matrix metalloproteinases (MMP) are a family of peptidase enzymes responsible for the degradation of extracellular matrix components, including Collagen, Gelatin, Fibronectin, Laminin and proteoglycan. Transcription of MMP genes is differentially activated by phorbol ester, lipopolysaccharide (LPS) or staphylocoecal enterotoxin B (SEB). MMP catalysis requires both calcium and zinc. MMP-13 (also designated collagenase-3) is produced by breast carcinomas and degrades collagen types I, II and III. MMP-13 has wide substrate specificity, and its physiologic expression is limited to situations in which rapid and effective remodeling of collagenous ECM takes place, such as fetal bone development and adult bone remodeling.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: MMP13 (human) mapping to 11q22.2.

**SOURCE**

MMP-13 (C-3) is a mouse monoclonal antibody raised against amino acids 242-471 mapping at the C-terminus of MMP-13 of human origin.

**PRODUCT**

Each vial contains 200 µg IgG1 kappa light chain in 1.0 ml of PBS with ≤0.1% sodium azide and 0.1% gelatin.

**APPLICATIONS**

MMP-13 (C-3) is recommended for detection of MMP-13 of human origin by Western Blotting (starting dilution 1:100, dilution range 1:1000-1:3000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:3000).

Suitable for use as control antibody for MMP-13 siRNA (h): sc-41558, MMP-13 shRNA Plasmid (h): sc-41559-SH and MMP-13 shRNA (h) Lentiviral Particles: sc-41559-V.

Molecular Weight of MMP-13: 48 kDa.

**STORAGE**

Store at 4°C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

**DATA**

**SELECT PRODUCT CITATIONS**


**RESEARCH USE**

For research use only, not for use in diagnostic procedures.