

MMP-3 (C-19): sc-6839

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 staphylococcal enterotoxin B (SEB). MMP catalysis requires both calcium and zinc. MMP-3, MMP-10 and MMP-11 (also designated stromelysin-1, 2 and 3, respectively) activate procollagenase. MMP-3 activation of procollagenase can occur via two pathways. Direct activation by MMP-3 is slow and activation by MMP-3 in conjunction with tissue or plasma proteinases is rapid. MMP-10 is expressed in small intestine, and at lower levels in lung and heart. MMP-11 is specifically expressed in stromal cells of breast carcinomas and contributes to epithelial cell malignancies.

SOURCE

MMP-3 (C-19) is available as either goat (sc-6839) or rabbit (sc-6839-R) polyclonal affinity purified antibody raised against a peptide mapping to the C-terminus of MMP-3 of human origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-6839 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

MMP-3 (C-19) is recommended for detection of MMP-3 and, to a lesser extent, a broad range of MMP family members of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

MMP-3 (C-19) is also recommended for detection of MMP-3 in additional species, including equine, canine, bovine and porcine.

Molecular Weight of MMP-3: 57 kDa.

Positive Controls: MMP-3 (m): 293T Lysate: sc-121695, mouse eye extract: sc-364241 or rat placenta extract: sc-364808.

STORAGE

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

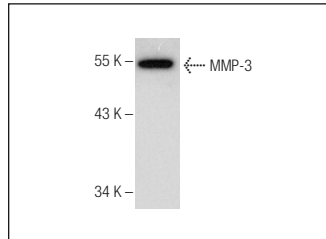
PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.

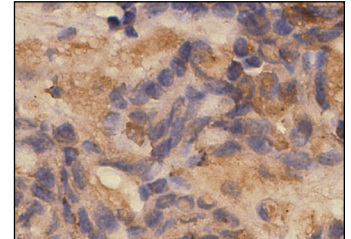
RESEARCH USE

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

DATA



MMP-3 (C-19)-R: sc-6839-R. Western blot analysis of MMP-3 expression in mouse eye tissue extract.



MMP-3 (C-19): sc-6839. Immunoperoxidase staining of formalin fixed, paraffin-embedded human breast tumor showing extracellular matrix localization.

SELECT PRODUCT CITATIONS

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