



20180222BB

Anti-Mouse MMP-3 (#6C34)

**FOR RESEARCH ONLY! NOT FOR HUMAN USE!**

Cat.-no.:	103-M266
Size:	100 µg
Lot. No.:	According to product label

Preparation: This antibody was produced from a hybridoma (mouse myeloma fused with spleen cells from a rat immunized with purified mouse recombinant protein of MMP-3. The IgG2 fraction of the culture supernatant was purified by Protein A/G affinity chromatography.

Target Background

Synonyms (Target):	Mmp3; SLN1; Str1; SLN-1; STR-1; Stmy1
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Matrix metalloproteinases are a family of zinc and calcium dependent endopeptidases with the combined ability to degrade all the components of the extracellular matrix. MMP3 (stromelysin1), can degrade a broad range of substrates including collagen α chains, aggrecan, laminin, fibronectin, elastin, casein, α 1 antitrypsin, myelin basic protein, IL1 β , IGFBP3, pro MMP1, pro MMP7, pro MMP8, pro MMP9 and pro MMP13. MMP3 does not cleave the triple helical region of interstitial collagens, a characteristic which distinguishes the stromelysins from the collagenases. The MMP3 substrate repertoire extends beyond extracellular matrix proteins and implicates MMP3 in roles other than direct tissue remodelling, for instance, enzyme cascades and cytokine regulation. MMP3 is expressed by fibroblasts, chondrocytes, osteoblasts, endothelial cells, smooth muscle cells and macrophages. Structurally, MMP3 may be divided into several distinct domains; a prodomain which is cleaved upon activation; a catalytic domain containing the zinc binding site; a short hinge region and a carboxyl terminal (hemopexinlike) domain.

Database References Target

Protein RefSeq:	NP_034939.1
Uniprot ID:	P28862
mRNA RefSeq:	NM_010809.1

Product Specifications

Host	Rat
Reactivity against	Mouse
Clonality	Monoclonal Antibody
Clone	(#6C34)
Isotype	IgG2
Purification	Protein A/G chromatography
Antigen	recombinant mouse MMP-3
Formulation	lyophilized
Reconstitution buffer	PBS (sterile)

Reconstitution: Reconstitute the antibody with 200 µl sterile PBS and the final concentration is 500 µg/ml.

Stability: Lyophilized samples are stable for 2 years from date of receipt when stored at -70°C. Reconstituted antibody can be aliquoted and stored frozen at < -20 °C for at least for six months without detectable loss of activity.

Remarks: This antibody detects mouse MMP-3 in Western blotting.

**AVOID REPEATED FREEZE AND THAW CYCLES!**

Applications

The antibody can be used within the following applications:

WB, IHC

Recommended usage:

WB: 1:500-1000

IHC (Paraffin): 1:100-200

NOTE: OPTIMAL DILUTIONS SHOULD BE DETERMINED BY EACH LABORATORY FOR EACH APPLICATION!



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Handling/Applications

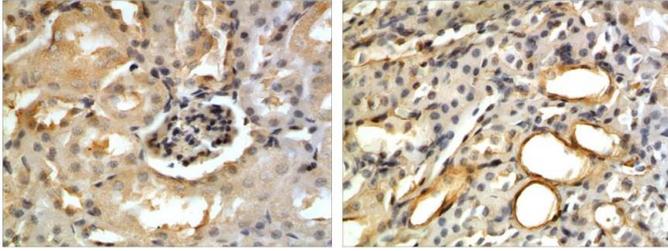


Fig. 1: The Kidney tissue samples from the Folic Acid-induced kidney injury model were fixed using 4% PFA at 4°C for overnight and embedded in paraffin. A 4 µm section was subjected to IHC (1:100-200).
Antigen retrieval: PK (10 µg/ml)