



Monoclonal Anti-human Pro MMP-1 Antibody

ORDERING INFORMATION

Catalog Number: MAB900

Clone: 36660.11

Size: 200 µg

Formulation: 0.2 µm filtered solution in PBS

Storage: -20° C

Reconstitution: sterile PBS

Specificity: human Pro MMP-1

Immunogen: CHO cell-derived Pro rhMMP-1

Ig class: mouse IgG,

Applications: Western blot
Immunohistochemistry
Immunoprecipitation

Preparation

This antibody was produced from a murine hybridoma elicited from a mouse immunized with purified, CHO cell-derived, recombinant human Pro MMP-1 (rhMMP-1). The IgG fraction of ascites fluid was purified by Protein A affinity chromatography.

Formulation

Lyophilized from a 0.2 µm filtered solution in phosphate-buffered saline (PBS).

Reconstitution

Reconstitute with sterile PBS. If 1 mL of PBS is used, the antibody concentration will be 0.2 mg/mL.

Storage

Lyophilized samples are stable for greater than six months when held at -20° C to -70° C. Upon reconstitution, the antibody can be stored at 2° - 4° C for at least 1 month without detectable loss of activity. Reconstituted antibody can also be aliquotted and stored frozen at -20° C to -70° C for at least six months without detectable loss of activity. **Avoid repeated freeze-thaw cycles.**

Specificity

This antibody has been selected for its ability to bind human Pro MMP-1. Based on western blot results, this antibody shows no cross-reactivity with recombinant human active MMP-1, rhMMP-2, rhMMP-3, rhMMP-8 or rhMMP-9.

Applications

Western Blot - This antibody can be used at approximately 1 µg/mL with the appropriate secondary reagents to detect human Pro MMP-1. The detection limit for human Pro MMP-1 is approximately 100 ng/lane under reducing conditions.

Immunohistochemistry - This antibody can be used at approximately 10 - 15 µg/mL with the appropriate secondary reagents to detect human Pro MMP-1 on frozen or paraffin-embedded sections. For detection of labeling of paraffin-embedded human tissues, the ABC technique using chromogenic substrates (NovaRED, AEC, DAB, etc.) is recommended.¹

Immunoprecipitation - This antibody has been used to immunoprecipitate Pro MMP-1 from conditioned media of transfected NS0 myeloma cells. The recovered rhMMP-1 can be detected by western blot analysis using R&D Systems' polyclonal antibody (Catalog # AF901).

¹Due to accumulation of autofluorescent pigment lipofuscin in neuronal tissues dissected from non-human primates or humans, the use of fluorescent probes such as FITC or Cy3 are not recommended if autofluorescence is not quenched (for example, by treating tissues after finishing IHC staining with 1% Sudan Black in 70% methanol for 10 minutes at room temperature). Residual autofluorescence may obscure specific labeling. Non-fluorescent enzymatic protocols (e.g. DAB, AEC, or immunogold-silver staining) may be used.

Optimal dilutions should be determined by each laboratory for each application.

For immunohistochemistry images, please refer to our website at http://www.rndsystems.com/asp/c_immunohistochemistry_add.asp