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RABBIT ANTI-HUMAN TIMP-1 POLYCLONAL ANTIBODY

CATALOG NUMBER:	**AB770**	**QUANTITY:**	100 μg
LOT NUMBER:		**CONCENTRATION:**	1 mg/mL
ALTERNATE NAMES:	Tissue Inhibitor of Metalloproteinase-1	**HOST/ISOTYPE:**	Rb IgG

SPECIFICITY: Reacts with TIMP1. Does not react with any other human proteins tested so far. The antibody reacts with native and denatured TIMP1 and TIMP1 in and out of enzyme/inhibitor complex.

APPLICATIONS: Western Blotting: 5-10 μg/mL. Recognizes a band of approximately 28-30 kDa in reduced samples.
Immunolocalization: 1 μg/section.
ELISA: 5 μg/mL
Is not known to inhibit biological activity
Optimal working dilutions must be determined by the end user.

SPECIES REACTIVITY: Reacts with rabbit, sheep, bovine, rat, equine and ferret. Reactivity with other species has not been determined.

IMMUNOGEN: Full length purified human fibroblast tissue inhibitor of metalloproteinases.

PRESENTATION: Purified immunoglobulin. Liquid in PBS containing 0.02% azide.

STORAGE/HANDLING: Maintain refrigerated at 2°-8°C for up to three months after date of receipt. For extended storage, freeze in convenient undiluted aliquots at -20°C for up to twelve months after date of receipt. Avoid repeated freeze/thaw cycles.

Important Note: *During shipment, small volumes of product will occasionally become entrapped in the seal of the product vial. For products with volumes of 200 μL or less, we recommend gently tapping the vial on a hard surface or briefly centrifuging the vial in a tabletop centrifuge to dislodge any liquid in the container's cap.*

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Suggested Tissue Preparation and Antibody Labeling Procedure for use with Millipore anti-TIMP and anti-Collagenase antibodies

Fixation:

Specimens were fixed in fresh , ice-cold 4% paraformaldehyde for 2 to 4 hours with gentle agitation (on ice), equilibrated in ice-cold phosphate buffered saline (PBS) containing 30% w/v sucrose overnight at 4°C and then frozen in blocks of Tissue Tek OCT compound (Miles USA) and stored at-70°C until cryo-sectioned using a Bright cryomicrotome.

Labeling:

Antigens (TIMP/collagenase) were detected on frozen sections of 7-10 μm thickness, using peroxidase anti-peroxidase (PAP) labeling technique. Non-specific binding was blocked by incubation with PBS containing 0.1% BSA for 30 minutes. Antibody binding was detected using a metal-enhanced DAB substrate. Endogenous peroxidase activity was suppressed by pre-incubating sections for up to 20 minutes with a commercially available peroxidase suppresser.

Polyclonal antibodies were diluted in PBS containing 0.1% BSA to a final concentration of 20-80 μg/mL. Normal rabbit or sheep immunoglobulins (as appropriate) were used at the same concentration for negative controls.

Monoclonal antibodies to purified, active human interstitial collagenase were used on tissue sections at a final concentration of 10 to 20 μg/mL. Purified mouse immunoglobulins were used as negative controls.

Please note that tissues may vary considerably and that antibody concentration may need to be optimized, depending upon species, tissue, fixation protocol and whether an antigen unmasking procedure (enzyme digestion) is appropriate. We use to pre-treat sections with crude hyaluronidase at 1000 U/mL for 1 hour at 37°C, to remove glycosaminoglycans and expose hidden epitopes, but found that this procedure removed matrix binding by anti-collagenase monoclonals and we no longer routinely enzyme pre-treat our tissues.

Have you published a paper using a Millipore primary antibody? You may be eligible for credit toward future purchases of Millipore products! Contact our Technical Service department for more information.

FOR RESEARCH USE ONLY; NOT FOR USE IN DIAGNOSTIC PROCEDURES. NOT FOR HUMAN OR ANIMAL CONSUMPTION

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