



20150116ML

Anti-Mouse TIMP-1 (#6A34)

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

| | |
|------------------|----------------------------|
| Cat.-no.: | 103-M277 |
| 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 TIMP-1. The IgG2 fraction of the culture supernatant was purified by Protein A/G affinity chromatography.

Target Background

| | |
|---------------------------|---------------------------|
| Synonyms (Target): | Timp1; Clgi; Timp; TIMP-1 |
|---------------------------|---------------------------|

TIMPs-1 through -4 regulate the activity of zinc metalloproteases known as MMPs, ADAMs and ADAMTSs. Structurally, TIMPs contain two domains. The N-terminal domain binds to the active site of mature metalloproteases via a 1:1 non-covalent interaction, blocking access of substrates to the catalytic site. In addition, The C-terminal domain of TIMP-1 and TIMP-2 binds to the hemopexin-like domain of pro-MMP-9 and pro-MMP-2, respectively. The latter binding is essential for the cell surface activation of MMP-2 by MMP-14.

Database References Target

| | |
|------------------------|-------------|
| Protein RefSeq: | NP_035723.2 |
| Uniprot ID: | P12032 |
| mRNA RefSeq: | NM_011593.2 |

Product Specifications

| | |
|------------------------------|----------------------------------|
| Host | Rat |
| Reactivity against | Mouse |
| Clonality | Monoclonal Antibody |
| Clone | (#6A34) |
| Isotype | IgG2 |
| Purification | Protein G chromatography |
| Antigen | mouse recombinant TIMP-1 protein |
| 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 TIMP-1 in Western blotting.

**AVOID REPEATED FREEZE AND THAW CYCLES!**

Applications

The antibody can be used within the following applications:

WB

Recommended usage:

WB: 1:500-1000

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