

TIMP-2 Ab-1 (Clone T2-101)

Mouse Monoclonal Antibody

Cat. #MS-571-P0, -P1, or -P (0.1ml, 0.5ml, or 1.0ml at 200µg/ml) (Purified Ab with BSA and Azide)

Cat. #MS-571-P1ABX or -PABX (0.1ml or 0.2ml at 1.0mg/ml) (Purified Ab without BSA and Azide)

Cat. #MS-571-B0, -B1, or -B (0.1ml, 0.5ml, or 1.0ml at 200µg/ml) (Biotin-Labeled Ab with BSA and Azide)

Cat. #MS-571-PCL (0.1ml) (Positive Control for Western Blot)

Description: Tissue inhibitor of metalloproteinases-1 (TIMP-1) and Tissue inhibitor of metalloproteinases-2 (TIMP-2) have similar properties, specifically in inhibiting enzymes of matrix metalloproteinase family, and are thought to be of great importance in the maintenance of connective tissue integrity. TIMP-2 shows the highest binding affinity to both the latent (pro) and active forms of 72kDa Type IV collagenase (also known as MMP-2 or gelatinase A). It also has affinity for the active form of 92kDa Type IV collagenase (also known as MMP-9 or gelatinase B). TIMP-2 inhibits the proteolytic invasiveness of tumor cells and normal placental trophoblast cells.

Comments: Ab-1 also reacts with the MMP-2/TIMP-2 complex.¹

Mol. Wt. of Antigen: 21kDa

Epitope: aa 111-126. This epitope is not involved in binding of TIMP-2 to MMP-2.¹

Species Reactivity: Human. Does not react with mouse and rat. Others-not known.

Clone Designation: T2-101

Ig Isotype: IgG₁

Immunogen: Native human pro-MMP-2/TIMP-2 complex purified from A2058 culture medium followed by purified human rTIMP-2.^{1,2}

Applications and Suggested Dilutions:

- Immunohistology (Not suitable)
- Immunoprecipitation (Native and denatured) (Use Protein G) (Ab 2µg/mg protein lysate)
- Western Blotting (Ab 1-2µg/ml for 2hrs at RT)

The optimal dilution for a specific application should be determined by the investigator.

Positive Control: Conditioned, serum-free medium from (TPA-treated) human fetal lung cell line HFL-1

Cellular Localization: Cytoplasmic

Supplied As: 200µg/ml of antibody purified from ascites fluid by Protein G chromatography. Prepared in 10mM PBS, pH 7.4, with 0.2% BSA and 0.09% sodium azide. Also available without BSA and azide at 1mg/ml.

Storage and Stability:

Ab with sodium azide is stable for 24 months when stored at 2-8°C. Antibody WITHOUT sodium azide is stable for 36 months when stored at below 0°C.

Key References:

1. Hoyt M, *et. al.* International Journal of Cancer, 1994, 56(4):500-5.
2. Visscher DW, *et. al.* International Journal of Cancer, 1994, 59(3):339-44.
3. Hurskainen T, *et. al.* Journal of Histochemistry and Cytochemistry, 1996, 44(12):1379-88.
4. Hurskainen T, *et. al.* Human Pathology, 1996, 27(1):42-9.

Limitations and Warranty:

Our products are intended FOR RESEARCH USE ONLY and are not approved for clinical diagnosis, drug use or therapeutic procedures. No products are to be construed as a recommendation for use in violation of any patents. We make no representations, warranties or assurances as to the accuracy or completeness of information provided on our data sheets and website. Our warranty is limited to the actual price paid for the product. NeoMarkers is not liable for any property damage, personal injury, time or effort or economic loss caused by our products.

Material Safety Data:

This product is not licensed or approved for administration to humans or to animals other than the experimental animals. Standard Laboratory Practices should be followed when handling this material. The chemical, physical, and toxicological properties of this material have not been thoroughly investigated. Appropriate measures should be taken to avoid skin and eye contact, inhalation, and ingestion. The material contains 0.09% sodium azide as a preservative. Although the quantity of azide is very small, appropriate care should be taken when handling this material as indicated above. The National Institute of Occupational Safety and Health has issued a bulletin citing the potential explosion hazard due to the reaction of sodium azide with copper, lead, brass, or solder in the plumbing systems. Sodium azide forms hydrazoic acid in acidic conditions and should be discarded in a large volume of running water to avoid deposits forming in metal drainage pipes.

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