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36-3261: Anti-TIMP2 (Tissue Inhibitor of Metalloproteinase 2) Monoclonal Antibody(Clone: TIMP2/2044)

Clonality :	Monoclonal
Clone Name :	TIMP2/2044
Application :	ELISA,IHC
Reactivity :	Human
Gene :	TIMP2
Gene ID :	7077
Uniprot ID :	P16035
Alternative Name :	Metalloproteinase inhibitor 2; TIMP metallopeptidase inhibitor 2; TIMP-2; Tissue Inhibitor of Metalloproteinase 2
Isotype :	Mouse IgG1, kappa
Immunogen Information :	Recombinant human TIMP2 protein fragment (aa 48-220) (exact sequence is proprietary)

Description

It recognizes a protein of 21kDa, identified as tissue inhibitor of metalloproteinases-2 (TIMP-2). It is closely related to TIMP-1 and 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.

Product Info

Amount :	20 µg / 100 µg
Content :	200 µg/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Storage condition :	Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous.

Application Note

ELISA (Use Ab at 2-4ug/ml for coating) (Order Ab without BSA); Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 30 minutes at RT)(Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95&degC followed by cooling at RT for 20 minutes);

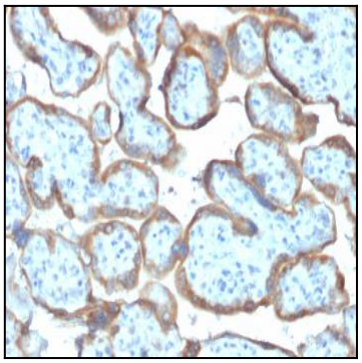


Fig. 1: Formalin-fixed, paraffin-embedded human Placenta stained with TIMP2 Mouse Monoclonal Antibody (TIMP2/2044).

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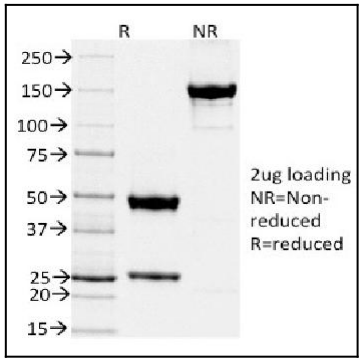


Fig. 2: SDS-PAGE Analysis Purified TIMP2 Mouse Monoclonal Antibody (TIMP2/2044). Confirmation of Purity and Integrity of Antibody.

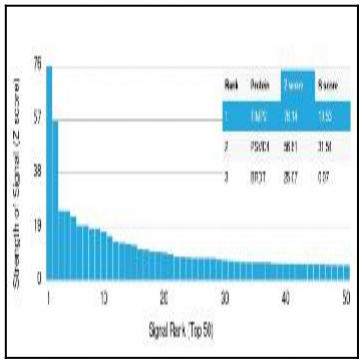


Fig. 3: Analysis of Protein Array containing more than 19,000 full-length human proteins using TIMP2 Mouse Monoclonal Antibody (TIMP2/2044) Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (Monoclonal Antibody) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProtTM array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProtTM are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a Monoclonal Antibody to its intended target. A Monoclonal Antibody is considered to specific to its intended target, if the Monoclonal Antibody has an S-score of at least 2.5. For example, if a Monoclonal Antibody binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that Monoclonal Antibody to protein X is equal to 29.

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