Datasheet for ABIN6940737

anti-TIMP2 antibody (AA 48-220)

3 Images

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Overview

Quantity:	100 µg
Target:	TIMP2
Binding Specificity:	AA 48-220
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This TIMP2 antibody is un-conjugated
Application:	Immunohistochemistry (IHC), ELISA, Staining Methods (StM), Coating (Coat)

Product Details

Immunogen:	Recombinant human TIMP2 protein fragment (aa 48-220) (exact sequence is proprietary)
Clone:	TIMP2-2044
Isotype:	IgG1 kappa
Specificity:	It recognizes a protein of 21 kDa, 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 72 kDa Type IV collagenase (also known as MMP-2 or gelatinase A). It also has affinity for the active form of 92 kDa 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.
Purification:	Purified by Protein A/G

Target Details

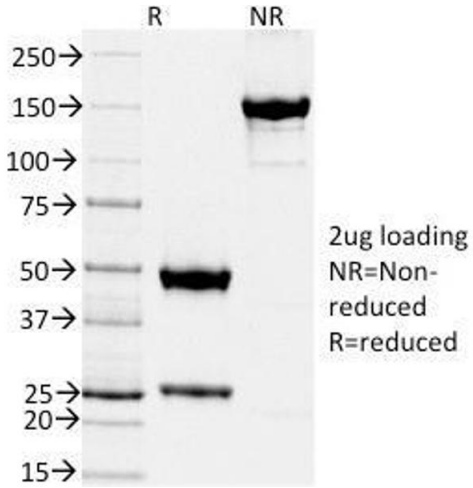
Target:	TIMP2
Alternative Name:	TIMP2 (TIMP2 Products)
Molecular Weight:	21kDa
Gene ID:	7077
UniProt:	P16035
Pathways:	cAMP Metabolic Process

Application Details

Application Notes:	Positive Control: HeLa cells. Normal Placenta. Breast, Colon, Endometrial, Prostate or Ovarian Carcinoma. Known Application: ELISA (Use Ab at 2-4 µg/mL for coating) (Order Ab without BSA), Immunohistochemistry (Formalin-fixed) (1-2 µg/mL for 30 minutes at RT)(Staining of formalin-fixed tissues requires boiling tissue sections in 10 mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes)Optimal dilution for a specific application should be determined.
Restrictions:	For Research Use only

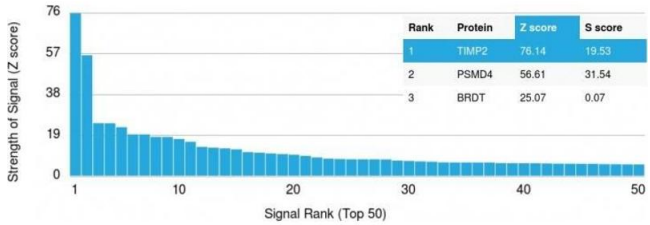
Handling

Concentration:	200 µg/mL
Buffer:	10 mM PBS with 0.05 % BSA & 0.05 % azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-80 °C
Storage Comment:	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. No MSDS required.
Expiry Date:	24 months



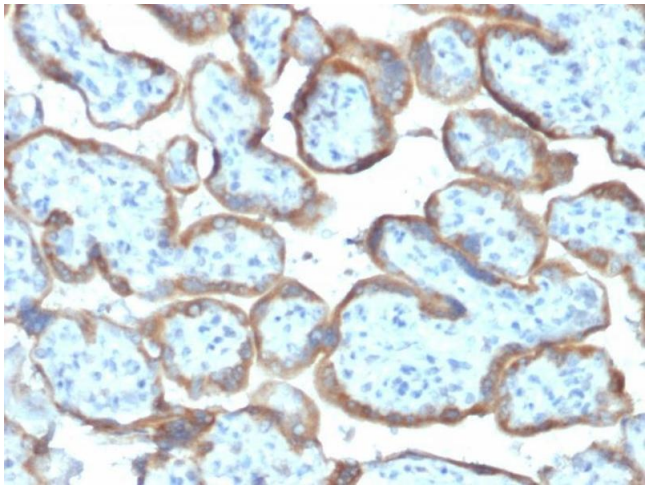
SDS-PAGE

Image 1. SDS-PAGE Analysis Purified TIMP2 Mouse Monoclonal Antibody (TIMP2/2044). Confirmation of Purity and Integrity of Antibody.



Protein Array

Image 2. 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.



Immunohistochemistry

Image 3. Formalin-fixed, paraffin-embedded human Placenta stained with TIMP2 Mouse Monoclonal Antibody (TIMP2/2044).

