

Anti-TIMP2 Antibody [PSH11-62]

HA723358



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human, Monkey
Applications:	WB
Molecular Wt:	Predicted band size: 24 kDa
Clone number:	PSH11-62

Description: Tissue inhibitor of metalloproteinases 2 (TIMP2) is a gene and a corresponding protein. The gene is a member of the TIMP gene family. The protein is thought to be a metastasis suppressor. The proteins encoded by this gene family are natural inhibitors of the matrix metalloproteinases (MMP), a group of peptidases involved in degradation of the extracellular matrix. In addition to an inhibitory role against metalloproteinases, the encoded protein has a unique role among TIMP family members in its ability to directly suppress the proliferation of endothelial cells. As a result, the encoded protein may be critical to the maintenance of tissue homeostasis by suppressing the proliferation of quiescent tissues in response to angiogenic factors, and by inhibiting protease activity in tissues undergoing remodelling of the extracellular matrix. TIMP2 functions as both an MMP inhibitor and an activator. TIMPs inhibit active MMPs, but different TIMPs inhibit different MMPs better than others. For example, TIMP-1 inhibits MMP-7, MMP-9, MMP-1 and MMP-3 better than TIMP-2, and TIMP-2 inhibits MMP-2 more effectively than other TIMPs.

Immunogen: Recombinant protein within human TIMP2 aa 1-220.

Positive control: HeLa cell lysate, SW480 cell lysate, COS-1 cell lysate.

Subcellular location: Secreted.

Database links: SwissProt: P16035 Human

Recommended Dilutions:

WB 1:2,000

Storage Buffer: 1*PBS (pH7.4), 0.1% BSA, 40% Glycerol, 0.2% Proclean 950.

Storage Instruction: Shipped at 4°C. Store at +4°C short term (1-2 weeks). It is recommended to aliquot into single-use upon delivery. Store at -20°C long term.

Purity: Protein A affinity purified.

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Orders:0086-571-88062880

Technical:0086-571-89986345

Service mail:support@huabio.cn

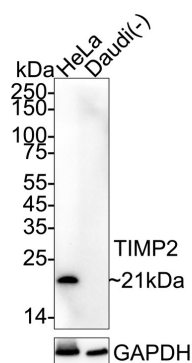
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Images

Fig1: Western blot analysis of TIMP2 on different lysates with Rabbit anti-TIMP2 antibody (HA723358) at 1/2,000 dilution.

Lane 1: HeLa cell lysate

Lane 2: Daudi cell lysate (negative)



Lysates/proteins at 20 µg/Lane.

Predicted band size: 24 kDa

Observed band size: 21 kDa

Exposure time: 2 minutes; ECL: K1801;

4-20% SDS-PAGE gel.

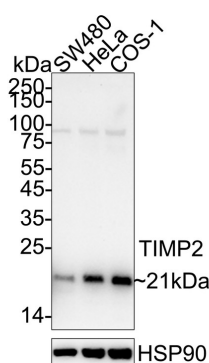
Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA723358) at 1/2,000 dilution was used in 5% NFDM/TBST at 4°C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

Fig2: Western blot analysis of TIMP2 on different lysates with Rabbit anti-TIMP2 antibody (HA723358) at 1/2,000 dilution.

Lane 1: SW480 cell lysate

Lane 2: HeLa cell lysate

Lane 3: COS-1 cell lysate



Lysates/proteins at 15 µg/Lane.

Predicted band size: 24 kDa

Observed band size: 21 kDa

Exposure time: 1 minute; ECL: K1802;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA723358) at 1/2,000 dilution was used in 5% NFDM/TBST at 4°C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

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Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. Tang J et al. TIMP2 ameliorates blood-brain barrier disruption in traumatic brain injury by inhibiting Src-dependent VE-cadherin internalization. *J Clin Invest.* 2023 Nov
2. Ferreira AC et al. Neuronal TIMP2 regulates hippocampus-dependent plasticity and extracellular matrix complexity. *Mol Psychiatry.* 2023 Sep

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