

Anti-TIMP4 Antibody [PSH20-91] - BSA and Azide free

HA751773



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human, Mouse, Rat, Green monkey
Applications:	WB, FC
Molecular Wt:	Predicted band size: 26 kDa
Clone number:	PSH20-91

Description: Metalloproteinase inhibitor 4 is an enzyme that in humans is encoded by the TIMP4 gene. This gene belongs to the tissue inhibitor of metalloproteinases gene family. The proteins encoded by this gene family are inhibitors of the matrix metalloproteinases, a group of peptidases involved in degradation of the extracellular matrix. The secreted, netrin domain-containing protein encoded by this gene is involved in regulation of platelet aggregation and recruitment and may play role in hormonal regulation and endometrial tissue remodeling.

Immunogen: Recombinant protein within human TIMP4 aa 1-224.

Positive control: HeLa cell lysate, U-87 MG cell lysate, HT-29 cell lysate, MDA-MB-231 cell lysate, HEK-293 cell lysate, BxPC-3 cell lysate, Raji cell lysate, COS-1 cell lysate, Mouse brain tissue lysate, Mouse heart tissue lysate, Rat brain tissue lysate, Rat heart tissue lysate, U-87 MG.

Subcellular location: Secreted.

Database links: SwissProt: Q99727 Human | Q9JHB3 Mouse | P81556 Rat

Storage Buffer: 1*PBS (pH7.4).

Storage Instruction: Store at 2-8℃. Avoid freeze.

Purity: Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

Service mail:support@huabio.cn

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Applications:WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation

Images

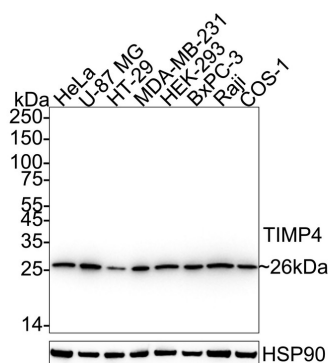


Fig1: This data was developed using HA724186, the same antibody clone in a different buffer formulation.

Western blot analysis of TIMP4 on different lysates with Rabbit anti-TIMP4 antibody (HA724186) at 1/5,000 dilution.

Lane 1: HeLa cell lysate (20 µg/Lane)
 Lane 2: U-87 MG cell lysate (20 µg/Lane)
 Lane 3: HT-29 cell lysate (20 µg/Lane)
 Lane 4: MDA-MB-231 cell lysate (20 µg/Lane)
 Lane 5: HEK-293 cell lysate (20 µg/Lane)
 Lane 6: BxPC-3 cell lysate (20 µg/Lane)
 Lane 7: Raji cell lysate (20 µg/Lane)
 Lane 8: COS-1 cell lysate (20 µg/Lane)

Predicted band size: 26 kDa

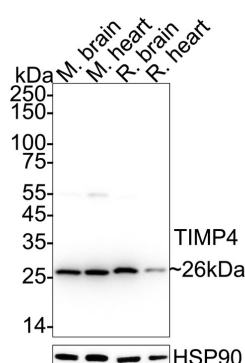
Observed band size: 26 kDa

Exposure time: 4 seconds; 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 (HA724186) at 1/5,000 dilution was used in primary antibody dilution (K1803) 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: This data was developed using HA724186, the same antibody clone in a different buffer formulation.

Western blot analysis of TIMP4 on different lysates with Rabbit anti-TIMP4 antibody (HA724186) at 1/5,000 dilution.



Lane 1: Mouse brain tissue lysate (20 µg/Lane)
 Lane 2: Mouse heart tissue lysate (20 µg/Lane)
 Lane 3: Rat brain tissue lysate (20 µg/Lane)
 Lane 4: Rat heart tissue lysate (20 µg/Lane)

Predicted band size: 26 kDa

Observed band size: 26 kDa

Exposure time: 4 seconds; 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 (HA724186) at 1/5,000 dilution was used in primary antibody dilution (K1803) 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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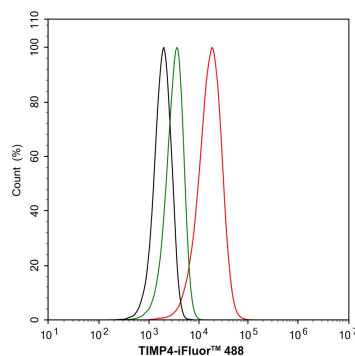


Fig3: This data was developed using HA724186, the same antibody clone in a different buffer formulation.

Flow cytometric analysis of U-87 MG cells labeling TIMP4.

Cells were fixed and permeabilized. Then stained with the primary antibody (HA724186, 1/1,000) (red) compared with Rabbit IgG Isotype Control (green). After incubation of the primary antibody at +4 °C for an hour, the cells were stained with a iFluor™ 488 conjugate-Goat anti-Rabbit IgG Secondary antibody (HA1121) at 1/1,000 dilution for 30 minutes at +4 °C. Unlabelled sample was used as a control (cells without incubation with primary antibody; black).

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

Background References

1. Zhou L et al. TIMP4 serves as a novel potential prognostic biomarker for oral squamous cell carcinoma. Sci Rep. 2025 Feb
2. Zhou W et al. Defect of TIMP4 Is Associated with High Myopia and Participates in Rat Ocular Development in a Dose-Dependent Manner. Int J Mol Sci. 2023 Nov

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