abcam

Product datasheet

Anti-TIMP1 antibody [EPR1550] ab109125

KO 評価済 リコンビナント RabMAb

27 References 画像数 9

製品の概要

製品名	Anti-TIMP1 antibody [EPR1550]
製品の詳細	Rabbit monoclonal [EPR1550] to TIMP1
由来種	Rabbit
アプリケーション	**適用あり:** WB, IHC-P **適用なし:** Flow Cyt,ICC/IF or IP
種交差性	**交差種:** Human
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
ポジティブ・コントロール	HeLa cell lysate; HT1080 + TPA, HL60+TPA, PBMC lysates, human prostate lysate; Human liver tissue; TIMP1 recombinant protein
特記事項	This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information **see here**. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**. Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle. Stable for 12 months at -20°C.
バッファー	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 40% Glycerol (glycerin, glycerine), PBS, 0.05% BSA
精製度	Protein A purified

ポリ/モノ	モノクローナル
クローン名	EPR1550
アイソタイプ	IgG

アプリケーション

The Abpromise guarantee Abpromise保証は、次のテスト済みアプリケーションにおけるab109125の使用に適用されます

アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

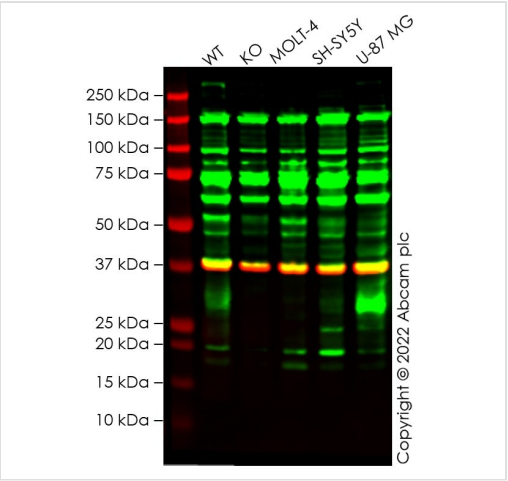
アプリケーション	Abreviews	特記事項
WB		1/1000 - 1/10000. Predicted molecular weight: 23 kDa.
IHC-P		1/8000. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol. See **IHC antigen retrieval protocols**. **For unpurified use at 1/250 - 1/500.**

追加情報 Is unsuitable for Flow Cyt,ICC/IF or IP.

ターゲット情報

機能	Complexes with metalloproteinases (such as collagenases) and irreversibly inactivates them by binding to their catalytic zinc cofactor. Also mediates erythropoiesis in vitro; but, unlike IL-3, it is species-specific, stimulating the growth and differentiation of only human and murine erythroid progenitors. Known to act on MMP-1, MMP-2, MMP-3, MMP-7, MMP-8, MMP-9, MMP-10, MMP-11, MMP-12, MMP-13 and MMP-16. Does not act on MMP-14.
配列類似性	Belongs to the protease inhibitor I35 (TIMP) family. Contains 1 NTR domain.
翻訳後修飾	The activity of TIMP1 is dependent on the presence of disulfide bonds.
細胞内局在	Secreted.

画像



Western blot - Anti-TIMP1 antibody [EPR1550] (ab109125)

All lanes : Anti-TIMP1 antibody [EPR1550] (ab109125) at 1/1000 dilution

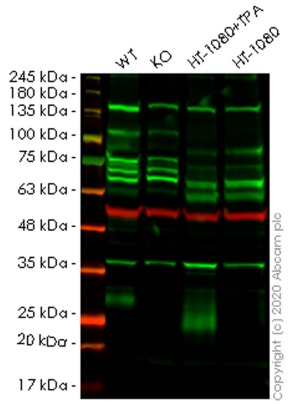
Lane 1 : Wild-type HeLa cell lysate
Lane 2 : TIMP1 knockout HeLa cell lysate
Lane 3 : MOLT-4 cell lysate
Lane 4 : SH-SY5Y cell lysate
Lane 5 : U-87 MG cell lysate

Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

Predicted band size: 23 kDa
Observed band size: 30 kDa

False colour image of Western blot: Anti-TIMP1 antibody [EPR1550] staining at 1/1000 dilution, shown in green; Mouse anti-GAPDH antibody [6C5] (**ab8245**) loading control staining at 1/20000 dilution, shown in red. In Western blot, ab109125 was shown to bind specifically to TIMP1. A band was observed at 30 kDa in wild-type HeLa cell lysates with no signal observed at this size in TIMP1 knockout cell line **ab264022** (knockout cell lysate **ab260091**). The identity of bands observed at higher molecular weights has not been determined. To generate this image, wild-type and TIMP1 knockout HeLa cell lysates were analysed. First, samples were run on an SDS-PAGE gel then transferred onto a nitrocellulose membrane. Membranes were blocked in fluorescent western blot (TBS-based) blocking solution before incubation with primary antibodies overnight at 4 °C. Blots were washed four times in TBS-T, incubated with secondary antibodies for 1 h at room temperature, washed again four times then imaged. Secondary antibodies used were Goat anti-Rabbit IgG H&L 800CW and Goat anti-Mouse IgG H&L 680RD at 1/20000 dilution.



Western blot - Anti-TIMP1 antibody [EPR1550] (ab109125)

All lanes : Anti-TIMP1 antibody [EPR1550] (ab109125) at 1/1000 dilution

Lane 1 : Wild-type HeLa cell lysate
Lane 2 : TIMP1 knockout HeLa cell lysate
Lane 3 : HT-1080 treated with 200ng/ml 12-O-Tetradecanoylphorbol-13-acetate (TPA) for 24 hours, cell lysate
Lane 4 : Untreated HT-1080 cell lysate

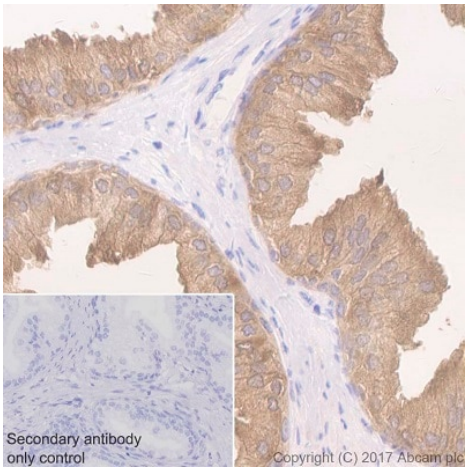
Lysates/proteins at 20 µg per lane.

Secondary
All lanes : Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (**ab216773**) at 1/10000 dilution

Predicted band size: 23 kDa
Observed band size: 26 kDa

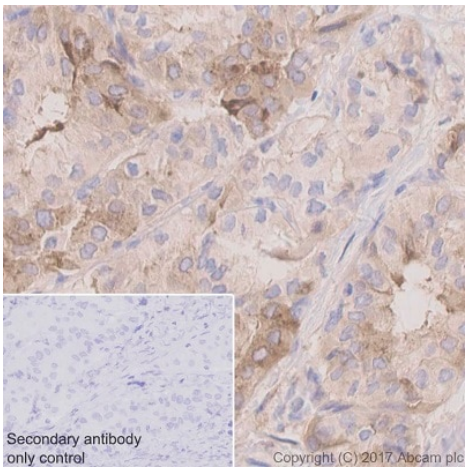
Lanes 1-4: Merged signal (red and green). Green - ab109125 observed at 26 kDa. Red - loading control **ab7291** observed at 50 kDa.

ab109125 Anti-TIMP1 antibody [EPR1550] was shown to specifically react with TIMP1 in wild-type HeLa cells. Loss of signal was observed when knockout cell line **ab261740** (knockout cell lysate **ab257291**) was used. Wild-type and TIMP1 knockout samples were subjected to SDS-PAGE. ab109125 and Anti-alpha Tubulin antibody [DM1A] - Loading Control (**ab7291**) were incubated overnight at 4°C at 1 in 1000 dilution and 1 in 20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preadsorbed (**ab216776**) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.



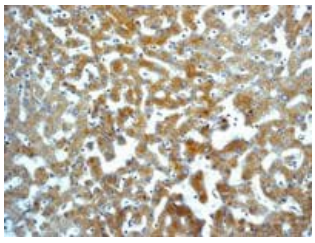
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TIMP1 antibody [EPR1550] (ab109125)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human prostatic hyperplasia tissue sections labeling TIMP1 with purified ab109125 at 1:8000 dilution (0.21 µg/ml). Heat mediated antigen retrieval was performed using EDTA buffer, pH 9.0. Tissue was counterstained with hematoxylin. ImmunoHistoProbe one step HRP Polymer (ready to use) secondary antibody was used at 1:0 dilution. PBS instead of the primary antibody was used as the negative control.



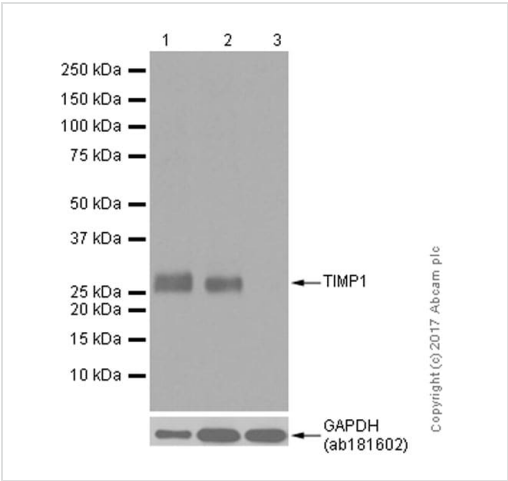
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TIMP1 antibody [EPR1550] (ab109125)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human thyroid carcinoma tissue sections labeling TIMP1 with purified ab109125 at 1:8000 dilution (0.21 µg/ml). Heat mediated antigen retrieval was performed using EDTA buffer, pH 9.0. Tissue was counterstained with hematoxylin. ImmunoHistoProbe one step HRP Polymer (ready to use) secondary antibody was used at 1:0 dilution. PBS instead of the primary antibody was used as the negative control.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TIMP1 antibody [EPR1550] (ab109125)

Unpurified ab109125, at 1/250 dilution staining TIMP1 in paraffin-embedded human liver tissue, by Immunohistochemistry.



Western blot - Anti-TIMP1 antibody [EPR1550] (ab109125)

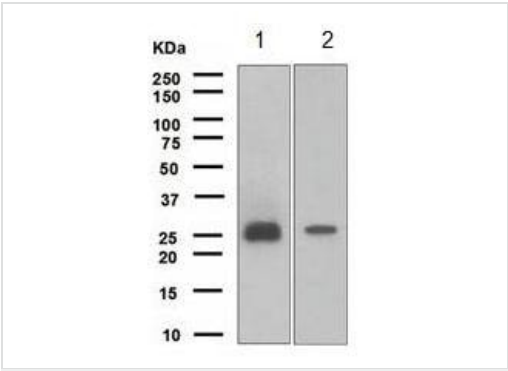
All lanes : Anti-TIMP1 antibody [EPR1550] (ab109125) at 1/1000 dilution (purified)

Lane 1 : Human prostate lysates at 20 µg
Lane 2 : HT-1080 (Human fibrosarcoma epithelial cell) treated with 200ng/ml TPA for 24 hours whole cell lysates at 15 µg
Lane 3 : Untreated with HT-1080 (Human fibrosarcoma epithelial cell) whole cell lysates at 15 µg

Secondary
All lanes : Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG at 1/2000 dilution

Predicted band size: 23 kDa

Blocking and diluting buffer: 5% NFDM/TBST



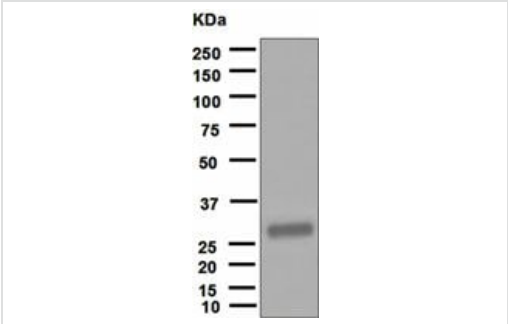
Western blot - Anti-TIMP1 antibody [EPR1550] (ab109125)

All lanes : Anti-TIMP1 antibody [EPR1550] (ab109125) at 1/1000 dilution (unpurified)

Lane 1 : HL60+TPA cell lysates
Lane 2 : PBMC cell lysates

Lysates/proteins at 10 µg per lane.

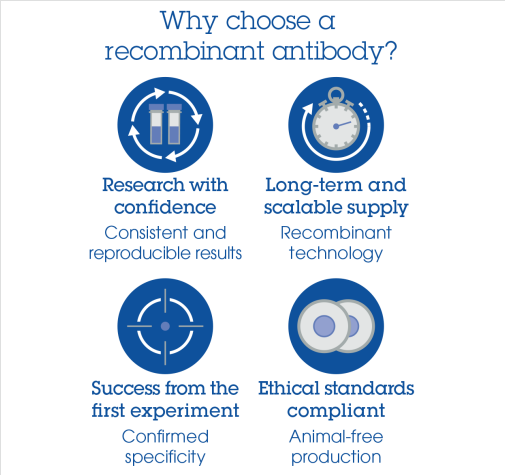
Predicted band size: 23 kDa



Western blot - Anti-TIMP1 antibody [EPR1550] (ab109125)

Anti-TIMP1 antibody [EPR1550] (ab109125) at 1/1000 dilution (unpurified) + TIMP1 recombinant protein at 10 µg

Predicted band size: 23 kDa



Anti-TIMP1 antibody [EPR1550] (ab109125)

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