Product datasheet

Anti-TIMP2 antibody [3A4] ab1828

Overview

Product name: Anti-TIMP2 antibody [3A4]
Description: Mouse monoclonal [3A4] to TIMP2
Host species: Mouse
Tested applications: Suitable for: ICC/IF, WB, IHC-P, IHC-Fr
Species reactivity: Reacts with: Mouse, Rat, Rabbit, Guinea pig, Cow, Human
Immunogen: BALB/C mice were injected with a synthetic peptide from the N-terminal region of human TIMP 2.
Positive control: IHC-P: Human placenta tissue.

Properties

Form: Liquid
Storage instructions: Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer: Preservative: 0.05% Sodium Azide
Constituents: 1% BSA
Purity: Immunogen affinity purified
Clonality: Monoclonal
Clone number: 3A4
Isotype: IgG2a
Light chain type: kappa

Applications

Our Abpromise guarantee covers the use of ab1828 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

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<td>ICC/IF</td>
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<td>Use a concentration of 5 µg/ml.</td>
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Function
Complexes with metalloproteinases (such as collagenases) and irreversibly inactivates them by binding to their catalytic zinc cofactor. Known to act on MMP-1, MMP-2, MMP-3, MMP-7, MMP-8, MMP-9, MMP-10, MMP-13, MMP-14, MMP-15, MMP-16 and MMP-19.

Sequence similarities
Belongs to the protease inhibitor I35 (TIMP) family.
Contains 1 NTR domain.

Post-translational modifications
The activity of TIMP2 is dependent on the presence of disulfide bonds.

Cellular localization
Secreted.

Images

Western blot - Anti-TIMP2 antibody [3A4] (ab18288) at 5 µg/ml + Recombinant TIMP2 at 0.1 µg

Secondary
Goat Anti-Mouse IgG H&L (HRP) preadsorbed (ab97040) at 1/5000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

Exposure time: 20 minutes
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human pancreas tissue labelling TIMP2 with ab1828.

Immunocytochemistry/ Immunofluorescence - Anti-TIMP2 antibody [3A4] (ab1828)

ICC/IF image of ab1828 stained HeLa cells. The cells were 100% methanol fixed (5 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab1828, 5µg/ml) overnight at +4°C. The secondary antibody (green) was Alexa Fluor® 488 goat anti-mouse IgG (H+L) used at a 1/1000 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.

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