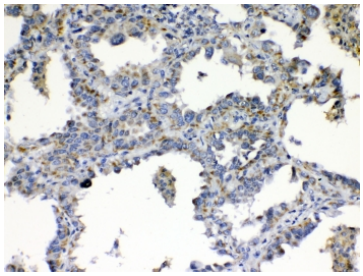
# TIMP4 Antibody (R32783)

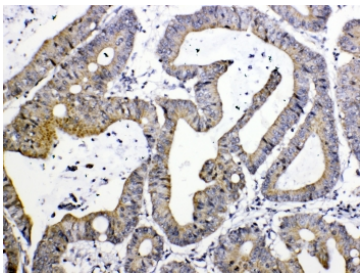
| Catalog No. | Formulation | Size |
|---|---|---|
| R32783 | 0.5mg/ml if reconstituted with 0.2ml sterile DI water | 100 ug |

**Bulk quote request**

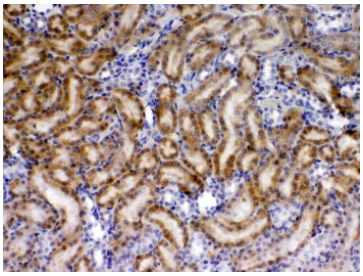
| | |
|---|---|
| **Availability** | 1-3 business days |
| **Species Reactivity** | Human, Mouse, Rat |
| **Format** | Antigen affinity purified |
| **Host** | Rabbit |
| **Clonality** | Polyclonal (rabbit origin) |
| **Isotype** | Rabbit IgG |
| **Purity** | Antigen affinity |
| **Buffer** | Lyophilized from 1X PBS with 2.5% BSA, 0.025% sodium azide |
| **UniProt** | Q99727 |
| **Localization** | Secreted |
| **Applications** | Western blot: 0.5-1ug/ml<br>Immunohistochemistry (FFPE): 1-2ug/ml<br>Flow cytometry: 1-3ug/10^6 cells<br>Immunofluorescence (FFPE): 2-4ug/ml<br>ELISA: 0.1-0.5ug/ml (human protein tested; request BSA-free format for coating) |
| **Limitations** | This TIMP4 antibody is available for research use only. |



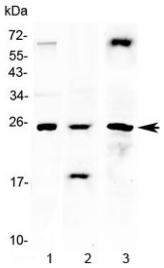
IHC testing of FFPE human lung cancer tissue with TIMP4 antibody at 1ug/ml. Required HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to testing.



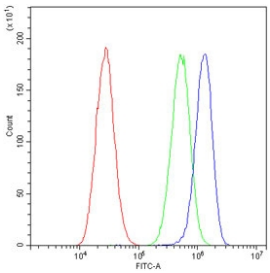
IHC testing of FFPE human intestinal cancer tissue with TIMP4 antibody at 1ug/ml. Required HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to testing.



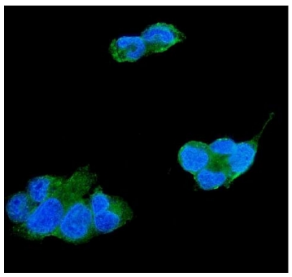
IHC testing of FFPE rat kidney tissue with TIMP4 antibody at 1ug/ml. Required HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to testing.




Western blot testing of 1) rat heart, 2) mouse heart and 3) human HeLa lysate with TIMP4 antibody at 0.5ug/ml. Predicted molecular weight ~25 kDa.




Flow cytometry testing of human A549 cells with TIMP4 antibody at 1ug/10^6 cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= TIMP4 antibody.



Immunofluorescent staining of FFPE human HepG2 cells with TIMP4 antibody (green) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.

## Description

Metalloproteinase inhibitor 4 is an enzyme that in humans is encoded by the TIMP4 gene. And this gene is mapped to chromosome 3p25. This gene belongs to the TIMP 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.

## Application Notes

Optimal dilution of the TIMP4 antibody should be determined by the researcher.

## Immunogen

Amino acids N174-P224 from the human protein were used as the immunogen for the TIMP4 antibody.

## Storage

After reconstitution, the TIMP4 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.


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