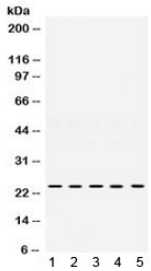
# TIMP2 Antibody (R31978)

| Catalog No. | Formulation | Size |
|---|---|---|
| R31978 | 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 |
| **Clonality** | Polyclonal (rabbit origin) |
| **Isotype** | Rabbit IgG |
| **Purity** | Antigen affinity |
| **Buffer** | Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide |
| **UniProt** | P16035 |
| **Localization** | Cytoplasmic, cell surface, secreted |
| **Applications** | Western Blot : 0.1-0.5ug/ml |
| **Limitations** | This TIMP2 antibody is available for research use only. |




Western blot testing of 1) rat spleen, 2) rat testis, 3) mouse brain, 4) moust thymus, 5) human HeLa lysate with TIMP2 antibody. Expected/observed molecular weight ~24 kDa.

## Description

TIMP metallopeptidase inhibitor 2, a tissue inhibitor of metalloproteinases, also known as TIMP2, is a human gene, thought to be a metastasis suppressor. This gene is a member of the TIMP gene family. The proteins encoded by this gene family are natural inhibitors of the matrix metalloproteinases, 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.

## Application Notes

Optimal dilution of the TIMP2 antibody should be determined by the researcher.

## Immunogen

Amino acids 27-220 of human TIMP2 were used as the immunogen for the TIMP2 antibody.

## Storage

After reconstitution, the TIMP2 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.