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## Product Information Sheet

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### **Polyclonal Anti-Tissue inhibitor of metalloproteinase 4, *TIMP4* (Magnetic Bead conjugate)**

**Catalogue No.** PA1078-M

**Immunogen**

A peptide mapping at the C-terminal end of human TIMP-4, different from the related mouse sequence by three amino acids.

**Lot No.** 03A01

**Ig type:** rabbit IgG

**Purity**

Immunogen affinity purified.

**Size:** 200µl

**Contents**

Each vial contains 1mg/ml Magnetic Bead in PBS, pH 7.2, 0.05mg NaN<sub>3</sub>.

**Specificity**

Human, mouse, rat.

No cross reactivity with other proteins.

**Storage**

Store at 4°C for frequent use.

**Recommended application**

*Immunoprecipitation(IP)*

**Description**

This Antagene antibody is immobilized by the covalent reaction of hydrazinonicotinamide-modified antibody with formylbenzamide-modified magnetic beads. It is useful for immunoprecipitation.

## **BACKGROUND**

The tissue inhibitors of metalloproteinases (TIMPs) inhibit matrix metalloproteinases (MMPs), a group of peptidases involved in degradation of the extracellular matrix. TIMP4 gene contains 5 exons that span 6 kb of genomic DNA. The gene is expressed as a 1.4-kb transcript abundant in heart and present at low levels in several other tissues. expressed TIMP4 inhibits MMPs in vitro. TIMP4 gene is mapped to chromosome 3p25. TIMP-4 binds both progelatinase A and the C domain in a similar manner to that of TIMP-2.

## **REFERENCE**

1. Olson, T. M.; Hirohata, S.; Ye, J.; Leco, K.; Seldin, M. F.; Apte, S. S. : Cloning of the human tissue inhibitor of metalloproteinase-4 gene (TIMP4) and localization of the TIMP4 and Timp4 gene to human chromosome 3p25 and mouse chromosome 6, respectively. *Genomics* 51: 148-151, 1998.
2. Bigg, H. F.; Shi, Y. E.; Liu, Y. E.; Steffensen, B.; Overall, C. M. : Specific, high affinity binding of tissue inhibitor of metalloproteinases-4 (TIMP-4) to the COOH-terminal hemopexin-like domain of human gelatinase A. *J. Biol. Chem.* 272: 15496-15500, 1997.

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