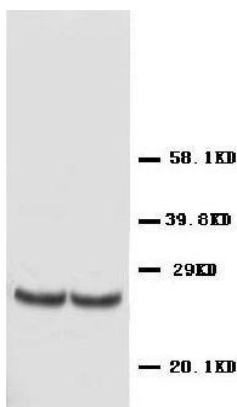




Product Information Sheet

Polyclonal Anti-Tissue inhibitor of metalloproteinase 4, **TIMP4**



Catalogue No. PA1078

Lot No. 03A01

Ig type: rabbit IgG

Size: 100µg/vial

Specificity

Human, mouse, rat.

No cross reactivity with other proteins.

Recommended application

Western blot

To reorder contact us at:

Antagene, Inc.

Toll Free: 1(866)964-2589

email: Info@antageneinc.com

Immunogen

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

Purity

Immunogen affinity purified.

Application

Western blot

At 1-2µg/ml with the appropriate system to detect TIMP-4 in cells and tissues.

Other applications have not been tested.

Optimal dilutions should be determined by end user.

Contents

Each vial contains 50% glycerol, 0.9mg NaCl, 0.2mg Na₂HPO₄.

Reconstitution

1.2% sodium acetate or neutral PBS. If 0.5ml of PBS is used, the antibody concentration will be 100µg/ml.

Storage

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for longer time.

FOR RESEARCH USE ONLY. NOT FOR DIAGNOSTIC AND CLINICAL USE.

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.