Polyclonal Anti-MMP14 **(Sepharose Bead Conjugate)**

Catalogue No. PA1115-S

Lot No. 08J01

Ig type: rabbit IgG

Size: 100µg/vial

Specificity

Human, rat, mouse. No cross reactivity with other proteins.

Recommended application

(Immunoprecipitation(IP)

Immunogen

A synthetic peptide mapping at the C-terminal of human MMP14 different from the related mouse sequence by single amino acid.

Purification

Immunogen affinity purified.

Formulation

50% slurry in PBS pH 7.2 with 0.01mg NaN_3a_3 preservative.

Storage

Store at 4˚C for frequent use.

Description:

This Antagene antibody is immobilized via covalent binding of primary amino groups to N-hydroxysuccinimide (NHS)-activated sepharose beads. It is useful for immunoprecipitation assays

BACKGROUND

Matrix metalloproteinases (MMPs) are Zn(2+)-binding endopeptidases that degrade various components of the extracellular matrix (ECM). The MMPs are enzymes implicated in normal and pathologic tissue remodeling processes, wound healing, angiogenesis, and tumor invasion. MMPs have different substrate specificities and are encoded by different genes. membrane-type matrix metalloproteinase (MMP14) may be an activator of pro-gelatinase A (MMP2) and is expressed in fibroblast cells during both wound healing and human cancer progression. Survivin, MMP2, MMP9, and MMP14 mRNA expression levels in clinically aggressive pigmented lesions were significantly higher than those in normal eutopic endometrium, and survivin gene expression in pigmented lesions was also higher than that in nonpigmented lesions (P less than 0.05). There was a close correlation between survivin and MMP2, MMP9, and MMP14 gene expression levels in 63 endometriotic tissues examined (P less than 0.01).

REFERENCE

1. Holmbeck, K.; Bianco, P.; Caterina, J.; Yamada, S.; Kromer, M.; Kuznetsov, S. A.; Mankani, M.; Robey, P. G.; Poole, A. R.; Pidoux, I.; Ward, J. M.; Birkedal-Hansen, H. : MT1-MMP-deficient mice develop dwarfism, osteopenia, arthritis, and connective tissue disease due to inadequate collagen turnover. *Cell* 99: 81-92, 1999.

2. Oh, J.; Takahashi, R.; Adachi, E.; Kondo, S.; Kuratomi, S.; Noma, A.; Alexander, D. B.; Motoda, H.; Okada, A.; Seiki, M.; Itoh, T.; Itohara, S.; Takahashi, C.; Noda, M. : Mutations in two matrix metalloproteinase genes, MMP-2, and MT1-MMP, are synthetic lethal in mice. *Oncogene* 23: 5041-5048, 2004.