Product Information Sheet

Polyclonal Anti-MMP16

Catalogue No. PA1123

Lot No. 08J01

Ig type: rabbit IgG

Size: 100µg/vial

Specificity

Human, rat, mouse.

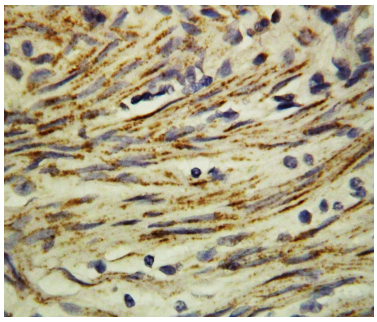
No cross reactivity with other proteins.

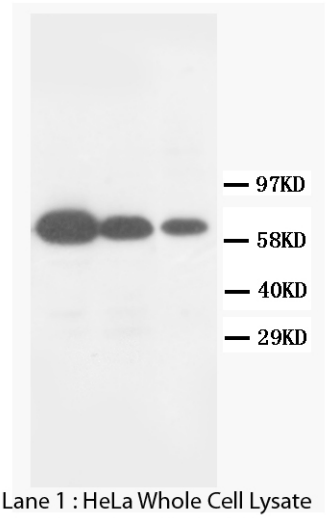
Recommended application

Western blot

Immunohistochemistry(P)

Immunohistochemistry(F)





Lane 1 : HeLa Whole Cell Lysate
Lane 2 : Jurkat Whole Cell Lysate
Lane 3 : colo320 Whole Cell Lysat

Immunogen

A synthetic peptide mapping at the C-terminal of human MMP16, identical to the related rat sequence.

Purity

Immunogen affinity purified.

Application

Western blot

At 1-2µg/ml with the appropriate system to detect MMP16 in cells and tissues.

Immunohistochemistry(P)

At 0.5-1µg/ml to detect MMP16 in formalin fixed and paraffin embedded tissues.

Immunohistochemistry(F)

At 0.5-1µg/ml to detect MMP16 in formalin or acetone fixed tissues.

Other applications have not been tested.

Optimal dilutions should be determined by end user.

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na_2HPO_4, 0.05mg Thimerosal, 0.05mg NaN_3.

Reconstitution

0.2ml of distilled water will yield a concentration of 500µg/ml.

To reorder contact us at:
Antagene, Inc.
Toll Free: 1(866)964-2589
email: Info@antageneinc.com

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.

BACKGROUND

The matrix metalloproteinase 16(MMP16) protein consists of 604 amino acids and has a characteristic MMP domain structure, which gene is mapped on human chromosome 8q21[1]. Additionally, MMP16 has a C-terminal extension containing a potential transmembrane domain, similar to MMP14 , MMP15 , and MMP17[2]. Furthermore, it is membrane-bound and is a member of the membrane-type MMPs that are a subclass in the MMP family since the other members lack a C-terminal transmembrane domain and are secreted as soluble forms[2]. MMP16 is expressed as a 12-kb transcript in brain, placenta, heart, and some carcinoma cell lines, but is not detectably expressed in lung, kidney, liver, spleen, and muscle[2].

REFERENCE

1.Sato, H.; Tanaka, M.; Takino, T.; Inoue, M.; Seiki, M. : Assignment of the human genes for membrane-type-1, -2, and -3 matrix metalloproteinases (MMP14, MMP15, and MMP16) to 14q12.2, 16q12.2-q21, and 8q21, respectively, by in situ hybridization. Genomics 39: 412-413, 1997.

2.Takino, T.; Sato, H.; Shinagawa, A.; Seiki, M. : Identification of the second membrane-type matrix metalloproteinase (MT-MMP-2) gene from a human placenta cDNA library: MT-MMPs form a unique membrane-type subclass in the MMP family. J. Biol. Chem. 270: 23013-23020, 1995.