MMP-2 Polyclonal Antibody

Catalog Number:D-AB-10399L

Note: Centrifuge before opening to ensure complete recovery of vial contents.

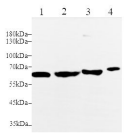
Description

Reactivity	Mouse,Rat
Immunogen	Recombinant Human MMP-2 Protein expressed by E.coli
Host	Rabbit
Isotype	IgG
Purification	Antigen Affinity Purification
Conjugation	Unconjugated
Formulation	PBS with 0.02% sodium azide,50% glycerol pH 7.4

Applications | Recommended Dilution

WB	1:500-1:1000

Data



Western blot with MMP-2 Polyclonal Antibody at dilution of 1:1000.lane 1:RAW264.7 whole cell lysate,lane 2:NIH/3T3 whole cell lysate,lane 3:Mouse uterus,lane 4:Rat liver

Observed Mw:69kDa-72kDa

Calculated Mw:74kDa

Preparation & Storage

Storage	Store at -20℃. Avoid freeze / thaw cycles.

Background

Matrix Metalloproteinase-2 (MMP-2) is an enzyme that degrades components of the extracellular matrix and thus plays a pivotal role in cell migration during physiological and pathological processes. MMP-2 expression is dependent on extracellular matrix metalloproteinase inducer (EMMPRIN),Her2/neu,growth factors,cytokines,and hormones. Pro-MMP-2 activation needs MT1-MMP and TIMP-2 contribution. MMP-2 is changed in distribution and increased in amount in the ventral cochlear nucleus after unilateral cochlear ablation. A low level of MMP-2 is linked to favorable prognosis in patients with a hormone receptor-negative tumor,usually associated with high risk. As a zymogen requiring proteolytic activation for catalytic activity,MMP-2 has been implicated broadly in the invasion and metastasis of many cancer model systems,including human breast cancer (HBC). Blocking MMP-2 secretion and activation during breast carcinoma development may decrease metastasis. The detection of active MMP-2 alone or the rate of pro-MMP-2 and active MMP-2 is considered a very sensitive indicator of cancer metastasis. Modulation of MMP-2 expression and activation through specific inhibitors and activators may thus provide a new mechanism for breast cancer treatment.

For Research Use Only

A Reliable Research Partner in Life Science and Medicine

Toll-free: 1-888-852-8623 Tel: 1-832-243-6086 Fax: 1-832-243-6017

Web: www.elabscience.com Email: techsupport@elabscience.com