MMP-1 Polyclonal Antibody

catalog number: D-AB-10373L

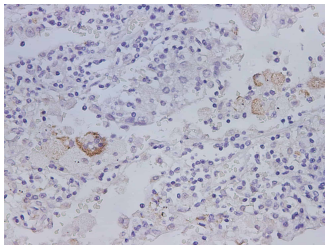
Note: *Centrifuge before opening to ensure complete recovery of vial contents.*

Description

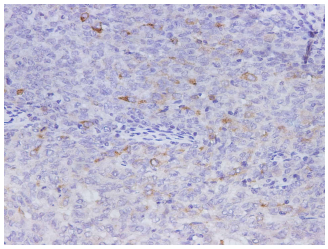
Reactivity	Human
Immunogen	Recombinant Mouse MMP-1 protein expressed by E.coli
Host	Rabbit
Isotype	IgG
Purification	Antigen Affinity Purification
Conjugation	Unconjugated
Buffer	PBS with 0.05% proclin 300, 1% protective protein and 50% glycerol,pH7.4

Applications	Recommended Dilution
IHC	1:600-1:1200

Data



Immunohistochemistry of paraffin-embedded Human lung cancer using MMP-1 Polyclonal Antibody at dilution of 1:1200



Immunohistochemistry of paraffin-embedded Human cervical cancer using MMP-1 Polyclonal Antibody at dilution of 1:1200

Preparation & Storage

Storage	Store at -20°C Valid for 12 months. Avoid freeze / thaw cycles.
Shipping	The product is shipped with ice pack,upon receipt,store it immediately at the temperature recommended.

Background

Matrix metalloproteinases are a family of zinc and calcium dependent endopeptidases with the combined ability to degrade all the components of the extracellular matrix. MMP-1 (interstitial collagenase), can degrade a broad range of substrates including types I, II, III, VII, VIII, and X collagens as well as casein, gelatin,alpha -1 antitrypsin, myelin basic protein, L-Selectin, pro-TNF, IL-1 beta, IGF-BP3, IGF-BP5, pro MMP-2 and pro MMP-9. A significant role of MMP-1 is the degradation of fibrillar collagens in extracellular matrix remodeling, characterized by the cleavage of the interstitial collagen triple helix into ¾, ¼ fragments. However, as the list of substrates above illustrates, the role of MMP-1 is more diverse than originally envisaged, and may involve enzyme cascades, cytokine regulation and cell surface molecule modulation. MMP-1 is expressed by fibroblasts, keratinocytes, endothelial cells, monocytes and macrophages. Structurally, MMP-1 may be divided into several distinct domains; a pro-domain which is cleaved upon activation; a catalytic domain containing the zinc binding site; a short hinge region and a carboxyl terminal (hemopexin-like) domain.