



MMP-11 Monoclonal Antibody

Catalog No	YP-mAb-02678
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	MMP11
Immunogen	The antiserum was produced against synthesized peptide derived from human MMP-11. AA range:61-110
Specificity	MMP-11 Monoclonal Antibody detects endogenous levels of MMP-11 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	Matrix metalloproteinase 11;MMP 11;STMY3;Stromelysin 3;MMP-11;MMP11; Stromelysin-3;SL-3;ST3;Matrix metalloproteinase-11
Observed Band	60kD
Calculated Molecular Weight	60kD
Cell Pathway	Secreted, extracellular space, extracellular matrix .
Tissue Specificity	Specifically expressed in stromal cells of breast carcinomas.
Function	cofactor: Binds 1 calcium ion per subunit.,cofactor: Binds 2 zinc ions per subunit., domain: The conserved cysteine present in the cysteine-switch motif binds the catalytic zinc ion, thus inhibiting the enzyme. The dissociation of the cysteine from the zinc ion upon the activation-peptide release activates the enzyme., function: May play an important role in the progression of epithelial malignancies., PTM: The precursor is cleaved by a furin endopeptidase.,similarity: Belongs to the peptidase M10A family.,similarity: Contains 4 hemopexin-like domains.,tissue specificity: Specifically expressed in stromal cells of breast carcinomas.,



Background

Proteins of the matrix metalloproteinase (MMP) family are involved in the breakdown of extracellular matrix in normal physiological processes, such as embryonic development, reproduction, and tissue remodeling, as well as in disease processes, such as arthritis and metastasis. Most MMP's are secreted as inactive proproteins which are activated when cleaved by extracellular proteinases. However, the enzyme encoded by this gene is activated intracellularly by furin within the constitutive secretory pathway. Also in contrast to other MMP's, this enzyme cleaves alpha 1-proteinase inhibitor but weakly degrades structural proteins of the extracellular matrix. [provided by RefSeq, Jul 2008],

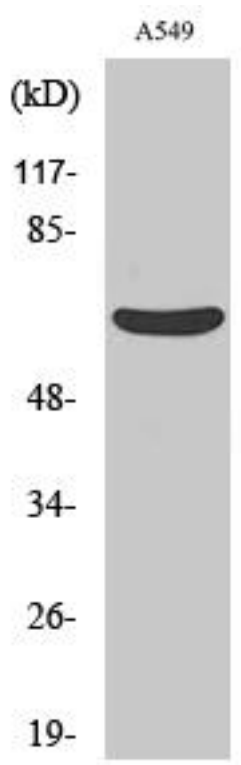
matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Western Blot analysis of various cells using MMP-11 Monoclonal Antibody