

Anti-MMP14 Polyclonal Antibody

Product Details

Ig Type:	IgG
Reactivity:	Human,Rat (predicted:Mouse,Pig,Sheep)
Molecular Weight:	Theoretical: 54/62 kDa.
Purification:	Protein A purified

Applications

Verified Activity:	1. Tissue/cell: Human colon carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01 M, pH 6.0), Boiling bathing for 15 min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30 min; Blocking buffer (normal goat serum) at 37°C for 20 min; Incubation: Anti-MMP-14 Polyclonal Antibody, Unconjugated (TMAB-08866) 1: 200, overnight at 4°C, followed by conjugation to the secondary antibody and DAB staining
	2. Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01 M, pH 6.0), Boiling bathing for 15 min; Blocking buffer (normal goat serum) at 37°C for 20 min; Incubation: Anti-MMP-14 Polyclonal Antibody, Unconjugated (TMAB-08866) 1: 200, overnight at 4°C; The secondary antibody was Goat Anti-Rabbit IgG, Cy3 conjugated used at 1: 200 dilution for 40 minutes at 37°C. DAPI (5 µg/ml, blue) was used to stain the cell nuclei
Application:	IHC-P,IHC-Fr,IF
Recommended	IHC-P: 1:100-500; IHC-Fr: 1:100-500; IF: 1:100-500

Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	KLH conjugated synthetic peptide: human MMP14
Antigen Species:	Human
Gene ID:	4323
Uniprot ID:	P50281

Research Background

MMP14 may be an activator of pro gelatinase A and is expressed in fibroblast cells during both wound healing and human cancer progression. MMP14 is expressed in very low levels and may require stimulation with concanavalin A or the phorbol ester TPA to stimulate production of MMP14.

Matrix metalloproteinase-14 precursor is endopeptidase that degrades various components of the extracellular matrix, such as collagen. Activates progelatinase A. Essential for pericellular collagenolysis and modeling of skeletal and extraskeletal connective tissues during development. [Catalytic activity] Endopeptidase activity. Activates progelatinase A by cleavage of the propeptide at 37-Asn-|-Leu-38. Other bonds hydrolyzed include 35-Gly-|-Ile-36 in

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the propeptide of collagenase 3, and 341-Asn-|-Phe-342, 441-Asp-|-Leu-442 and 354-Gln-|-Thr-355 in the aggrecan interglobular domain. Highly expressed in placenta, kidney, heart, lung, embryonic skeletal and periskeletal tissues. Belongs to the peptidase M10A family.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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