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Datasheet for ABIN2854829

anti-MMP13 antibody





Publication



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Quantity:	100 μL
Target:	MMP13
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MMP13 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Immunocytochemistry (ICC), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	Carrier-protein conjugated synthetic peptide encompassing a sequence within the center region of human MMP13. The exact sequence is proprietary.
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Rabbit Polyclonal antibody to MMP13 (matrix metallopeptidase 13 (collagenase 3)) MMP13 antibody [N3C1], Internal
Purification:	Purified by antigen-affinity chromatography.

Target Details

Target: MMP13

Target Details

Alternative Name:	matrix metallopeptidase 13 (MMP13 Products)	
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. The protein encoded by this gene cleaves type II collagen more	
	efficiently than types I and III. It may be involved in articular cartilage turnover and cartilage	
	pathophysiology associated with osteoarthritis. The gene is part of a cluster of MMP genes	
	which localize to chromosome 11q22.3.	
	Cellular Localization: Secreted , extracellular space , extracellular matrix	
Molecular Weight:	54 kDa	
Gene ID:	4322	
UniProt:	P45452	
Application Details		
Application Notes:	WB: 1:500-1:3000. ICC/IF: 1:100-1:1000. IHC-P: 1:100-1:1000. Optimal dilutions/concentrations	
	should be determined by the researcher. Not tested in other applications.	
Comment:	Positive Control: NT2D1	
	Validation: Orthogonal	
Restrictions:	For Research Use only	
Handling		
Format:	Liquid	
Concentration:	1 mg/mL	
Buffer:	0.1M Tris-Glycine (pH 7), 10 % Glycerol, 0.01 % Thimerosal	
Preservative:	Thimerosal (Merthiolate)	
Precaution of Use:	This product contains Thimerosal (Merthiolate): a POISONOUS AND HAZARDOUS SUBSTANCE	
	which should be handled by trained staff only.	
Storage:	4 °C,-20 °C	
Storage Comment:	Store as concentrated solution. Centrifuge briefly prior to opening vial. For short-term storage	

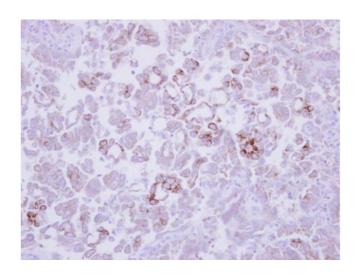
(1-2 weeks), store at 4°C. For long-term storage, aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.

Publications

Product cited in:

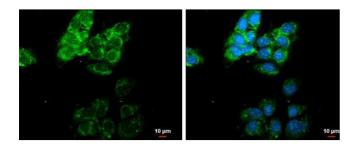
Hinderer, Sudrow, Schneider, Holeiter, Layland, Seifert, Schenke-Layland: "Surface functionalization of electrospun scaffolds using recombinant human decorin attracts circulating endothelial progenitor cells." in: **Scientific reports**, Vol. 8, Issue 1, pp. 110, (2018) (PubMed).

Images



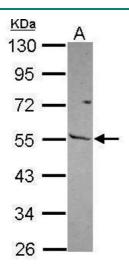
Immunohistochemistry

Image 1. IHC-P Image Immunohistochemical analysis of paraffin-embedded human lung adenocarcinoma, using MMP13, antibody at 1:250 dilution.



Immunofluorescence

Image 2. ICC/IF Image MMP13 antibody [N3C1], Internal detects MMP13 protein at cytoplasm by immunofluorescent analysis. Sample: NT2D1 cells were fixed in ice-cold MeOH for 5 min. Green: MMP13 protein stained by MMP13 antibody [N3C1], Internal , diluted at 1:500. Blue: Hoechst 33342 staining. Scale bar = $10 \mu m$.



Western Blotting

Image 3. WB Image Sample (30 ug of whole cell lysate) A: NT2D1 10% SDS PAGE antibody diluted at 1:1000

Please check the product details page for more images. Overall 5 images are available for ABIN2854829.