Datasheet for ABIN2854757

anti-MMP 9 antibody

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Overview

Quantity:	100 µL
Target:	MMP 9 (MMP9)
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MMP 9 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunocytochemistry (ICC), Immunofluorescence (IF), Immunohistochemistry (Frozen Sections) (IHC (fro)), Immunohistochemistry (Whole Mount) (IHC (wm))

Product Details

Immunogen:	Recombinant protein encompassing a sequence within the center region of human MMP9. The exact sequence is proprietary.
Isotype:	IgG
Cross-Reactivity:	Cow, Human, Mouse, Rat
Characteristics:	Rabbit Polyclonal antibody to MMP9 (matrix metallopeptidase 9 (gelatinase B, 92 kDa gelatinase, 92 kDa type IV collagenase)) MMP9 antibody [N2C1], Internal
Purification:	Purified by antigen-affinity chromatography.

Target Details

Target:	MMP 9 (MMP9)
Alternative Name:	matrix metallopeptidase 9 (MMP9 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 enzyme encoded by this gene degrades type IV and V collagens. Studies in rhesus monkeys suggest that the enzyme is involved in IL-8-induced mobilization of hematopoietic progenitor cells from bone marrow, and murine studies suggest a role in tumor-associated tissue remodeling. Cellular Localization: Secreted , extracellular space , extracellular matrix
Molecular Weight:	78 kDa
Gene ID:	4318
UniProt:	P14780
Pathways:	Cellular Response to Molecule of Bacterial Origin, Positive Regulation of Immune Effector Process, CXCR4-mediated Signaling Events

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:	Validation: Orthogonal
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	0.88 mg/mL
Buffer:	1XPBS (pH 7), 20 % Glycerol, 0.025 % ProClin 300
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

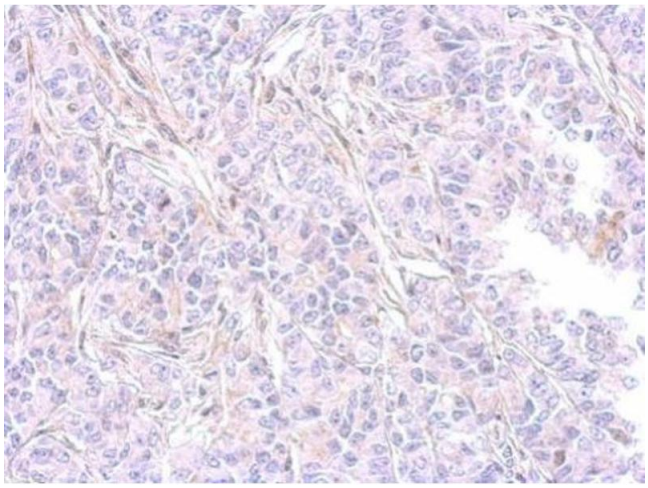
Handling

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

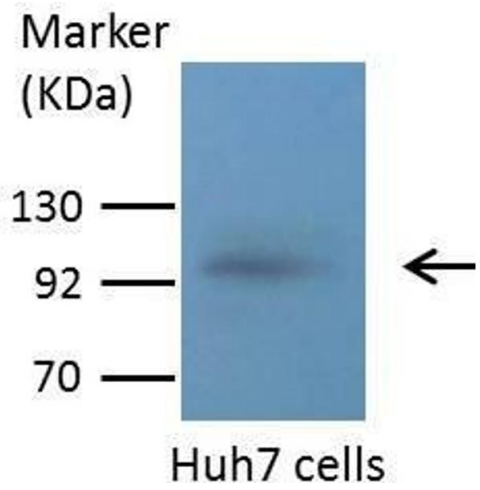
Product cited in:	Qi, Liu, Zhang, Guo: "Platelets induce increased estrogen production through NF-κB and TGF-β1 signaling pathways in endometriotic stromal cells." in: **Scientific reports**, Vol. 10, Issue 1, pp. 1281, (2020) (PubMed).

Validation report #104342 for Multiplex Immunohistochemistry (mIHC)



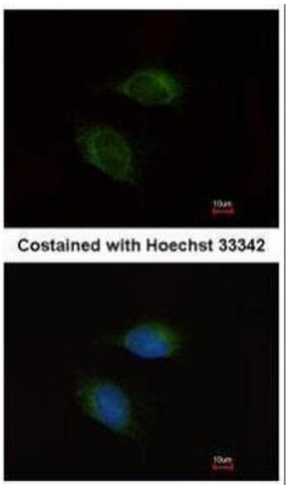
Immunohistochemistry

Image 1. IHC-P Image MMP9 antibody [N2C1], Internal detects MMP9 protein at cytosol on AGS xenograft by immunohistochemical analysis. Sample: Paraffin-embedded AGS xenograft. MMP9 antibody [N2C1], Internal , dilution: 1:500.



Western Blotting

Image 2. WB Image Sample (30 ug of whole cell lysate) A: A431 , B: H1299 7.5% SDS PAGE antibody diluted at 1:1000



Immunofluorescence

Image 3. ICC/IF Image Immunofluorescence analysis of methanol-fixed HeLa, using MMP9, antibody at 1:200 dilution.

