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Datasheet for ABIN5006945

anti-MMP26 antibody (AA 185-261) (Alexa Fluor 680)

Overview

Quantity:	100 µL
Target:	MMP26
Binding Specificity:	AA 185-261
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MMP26 antibody is conjugated to Alexa Fluor 680
Application:	Western Blotting (WB), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human MMP26 intermedial
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	Purified by Protein A.

Target Details

Target:	MMP26
Alternative Name:	MMP-26 (MMP26 Products)
Background:	Synonyms: MMP26_HUMAN, Endometase, Matrilysin 2, MMP26, Matrix Metalloproteinase 26,

Target Details

MMP 26.

Background: Matrix metalloproteinase 26 preprotein, gelatinase A, 70kD type IV collagenase, gelatinase neutrophil. Proteins of the matrix metalloproteinase (MMP) family are involved in the breakdown of extracellular matrix in normal physiological processes as well as in disease processes. Most MMP's are secreted as inactive proproteins which are activated when cleaved by extracellular proteinases. MMP26 degrades type IV collagen, the major structural component of basement membranes. The enzyme plays a role in endometrial menstrual breakdown, regulation of vascularization and the inflammatory response. 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. MMP26, also known as Matrilysin 2, was first cloned from human fetal cells, and identified as an MMP most closely related to MMP7 (Matrilysin 1). The homology between MMP7 and MMP26 is low (only 38 % identical), thus the functions are unlikely to be similar. Homology is much higher (48 % identical) for the comparable region of MMP12, but MMP26 appears to have broader substrate specificity than does MMP12. MMP26, like MMP7, lacks the hemopexin domain common to the other MMPs, but contains a Propeptide domain, cysteine switch activation site, followed by a catalytic domain, and a short vestige of the hinge region. MMP26 is apparently not glycosylated, and is a secreted MMP. Tissue analysis shows MMP26 most strongly in placenta and uterus, but also in kidney cells, lung cells, lymphocytes and lung or endometrial carcinoma cells. MMP26 is proteolytically active, cleaving casein in zymograms, and gelatin, a1PI, fibrinogen, fibronectin, vitronectin, type IV collagen, and apparently activating MMP9.

Gene ID: 56547

Application Details

Application Notes: IF(IHC-P) 1:50-200
IF(IHC-F) 1:50-200
IF(ICC) 1:50-200

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1 µg/µL

Handling

Buffer:	Aqueous buffered solution containing 0.01M TBS (pH 7.4) with 1 % BSA, 0.03 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20°C. Aliquot into multiple vials to avoid repeated freeze-thaw cycles.
Expiry Date:	12 months