abcam

Product datasheet

Recombinant Human MMP9 protein (Proenzyme) ab82955

2 References 3 Images

Description

Product name	Recombinant Human MMP9 protein (Proenzyme)
Purity	> 95 % SDS-PAGE.
Expression system	Escherichia coli
Accession	P14780
Protein length	Protein fragment
Animal free	No
Nature	Recombinant
Species	Human
Amino acids	20 to 707
Tags	His tag N-Terminus
Additional sequence information	Corresponding to the pro form of the protein minus the signal peptide with a N-terminal 6X his tag.

Specifications

Our **Abpromise guarantee** covers the use of **ab82955** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	ELISA SDS-PAGE Western blot
Form	Liquid

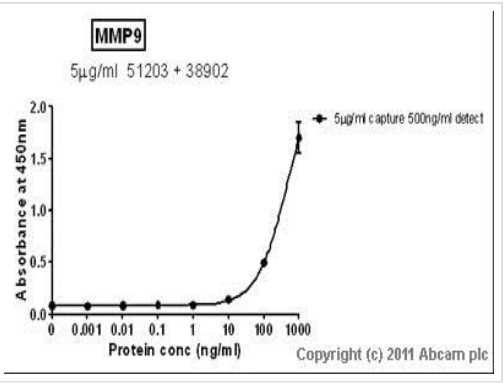
Preparation and Storage

Stability and Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles. pH: 7.20 Constituents: PBS, 50% Glycerol

General Info

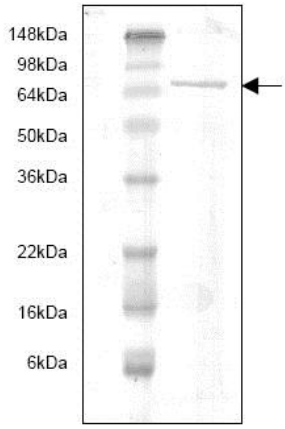
Function	May play an essential role in local proteolysis of the extracellular matrix and in leukocyte migration. Could play a role in bone osteoclastic resorption. Cleaves KiSS1 at a Gly- -Leu bond. Cleaves type IV and type V collagen into large C-terminal three quarter fragments and shorter N-terminal one quarter fragments. Degrades fibronectin but not laminin or Pz-peptide.
Tissue specificity	Produced by normal alveolar macrophages and granulocytes.
Involvement in disease	Intervertebral disc disease Metaphyseal anadysplasia 2
Sequence similarities	Belongs to the peptidase M10A family. Contains 3 fibronectin type-II domains. Contains 4 hemopexin repeats.
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.
Post-translational modifications	Processing of the precursor yields different active forms of 64, 67 and 82 kDa. Sequentially processing by MMP3 yields the 82 kDa matrix metalloproteinase-9. N- and O-glycosylated.
Cellular localization	Secreted, extracellular space, extracellular matrix.

Images



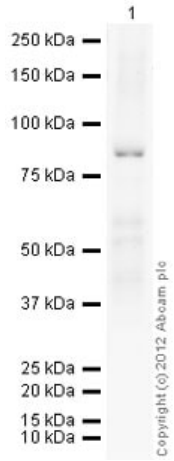
Sandwich ELISA - Recombinant Human MMP9 protein (Proenzyme) (ab82955)

Standard curve for MMP9 (Analyte: ab82955); dilution range 1pg/ml to 1µg/ml using Capture Antibody Mouse monoclonal [SB15c] to MMP9 (**ab51203**) at 5µg/ml and Detector Antibody Rabbit polyclonal to MMP9 - Hinge region (**ab38902**) at 0.5µg/ml.



SDS-PAGE - Recombinant Human MMP9 protein (Proenzyme) (ab82955)

ab82955 on SDS-PAGE.



Western blot - Recombinant Human MMP9 protein (Proenzyme) (ab82955)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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