




Product datasheet

Anti-MMP12 antibody ab231096

[5 Images](#)

Overview

Product name	Anti-MMP12 antibody
Description	Rabbit polyclonal to MMP12
Host species	Rabbit
Tested applications	Suitable for: WB
Species reactivity	Reacts with: Rat Predicted to work with: Mouse 
Immunogen	Recombinant fragment (His-tag) corresponding to Rat MMP12 aa 100-300. Expressed in E.coli. N-terminal tag. Database link: Q63341  Run BLAST with  Run BLAST with
Positive control	WB: Rat small intestine, thymus, liver and spinal cord lysates; Recombinant rat MMP12 protein.
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.40 Preservative: 0.02% Sodium azide Constituents: 44.12% PBS, 55.77% Glycerol (glycerin, glycerine)
Purity	Immunogen affinity purified
Purification notes	ab231096 was purified by antigen-specific affinity chromatography followed by Protein A affinity chromatography.
Clonality	Polyclonal

Isotype

IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab231096 in the following tested applications.

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

Application	Abreviews	Notes
WB		Use a concentration of 0.2 - 2 µg/ml. Predicted molecular weight: 54 kDa.

Target

Function

May be involved in tissue injury and remodeling. Has significant elastolytic activity. Can accept large and small amino acids at the P1' site, but has a preference for leucine. Aromatic or hydrophobic residues are preferred at the P1 site, with small hydrophobic residues (preferably alanine) occupying P3.

Tissue specificity

Found in alveolar macrophages but not in peripheral blood monocytes.

Sequence similarities

Belongs to the peptidase M10A family.
Contains 4 hemopexin-like domains.

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.

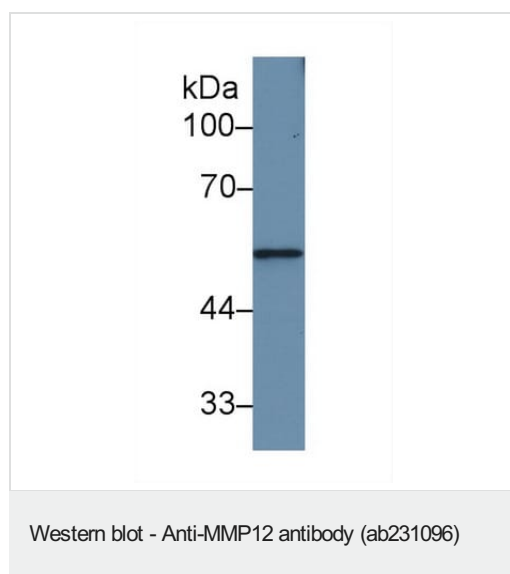
Cellular localization

Secreted > extracellular space > extracellular matrix.

Form

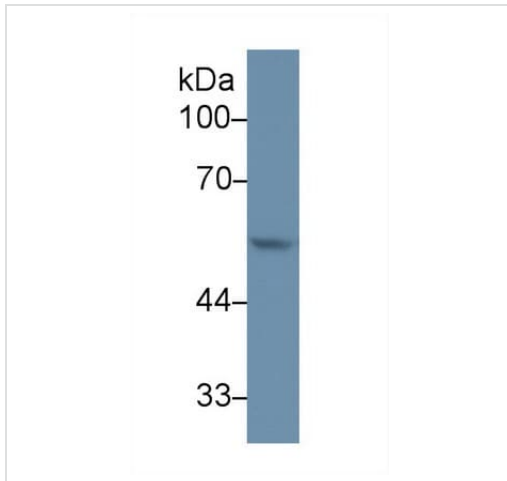
The presence of a 22kDa truncated active form of MMP-12 in vitro as well as in vivo due to the internal autolytic cleavage of the C-terminus.

Images



Anti-MMP12 antibody (ab231096) at 2 µg/ml + Rat small intestine lysate

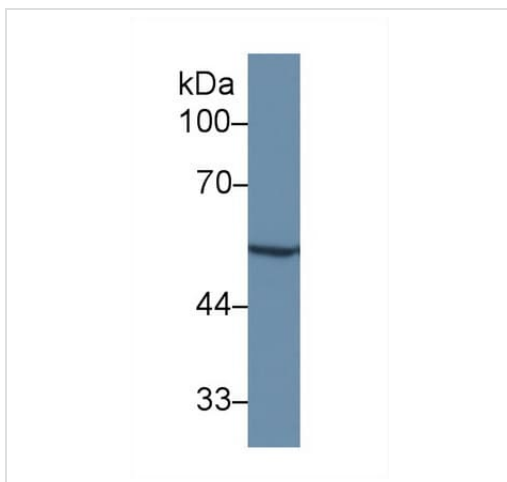
Predicted band size: 54 kDa



Western blot - Anti-MMP12 antibody (ab231096)

Anti-MMP12 antibody (ab231096) at 2 $\mu\text{g/ml}$ + Rat thymus lysate

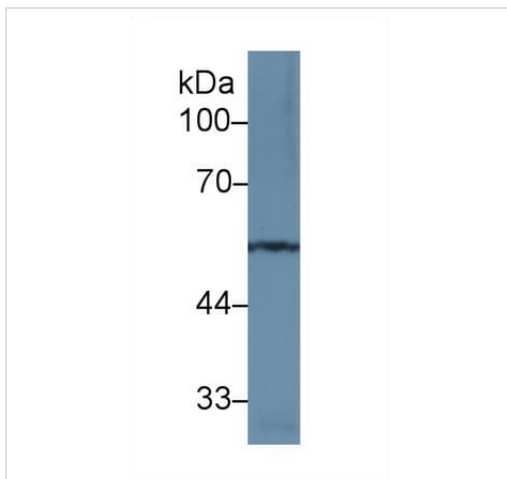
Predicted band size: 54 kDa



Western blot - Anti-MMP12 antibody (ab231096)

Anti-MMP12 antibody (ab231096) at 1 $\mu\text{g/ml}$ + Rat liver lysate

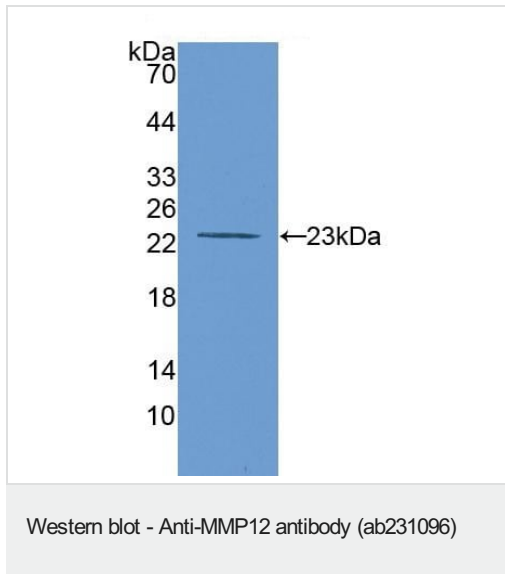
Predicted band size: 54 kDa



Western blot - Anti-MMP12 antibody (ab231096)

Anti-MMP12 antibody (ab231096) at 2 $\mu\text{g/ml}$ + Rat spinal cord lysate

Predicted band size: 54 kDa



Anti-MMP12 antibody (ab231096) at 2 µg/ml + Recombinant rat MMP12 protein

Predicted band size: 54 kDa

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

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