abcam

Product datasheet

Anti-MMP11 antibody ab53143

★★★★☆ **1 Abreviews**   **9 References**   2 Images

Overview

Product name	Anti-MMP11 antibody
Description	Rabbit polyclonal to MMP11
Host species	Rabbit
Tested applications	**Suitable for:** IHC-P, WB
Species reactivity	**Reacts with:** Human
	Predicted to work with: Mouse, Rat
Immunogen	Synthesized peptide derived from human MMP11.
Positive control	WB: A549 cell extract
General notes	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.
	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

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
Storage buffer	pH: 7.40 Preservative: 0.02% Sodium azide Constituents: 50% Glycerol (glycerin, glycerine), 49.48% PBS, 0.5% BSA
Purity	Immunogen affinity purified
Purification notes	The antibody was affinity purified from rabbit antiserum by affinity chromatography using epitope specific immunogen.
Clonality	Polyclonal
Isotype	IgG

Applications
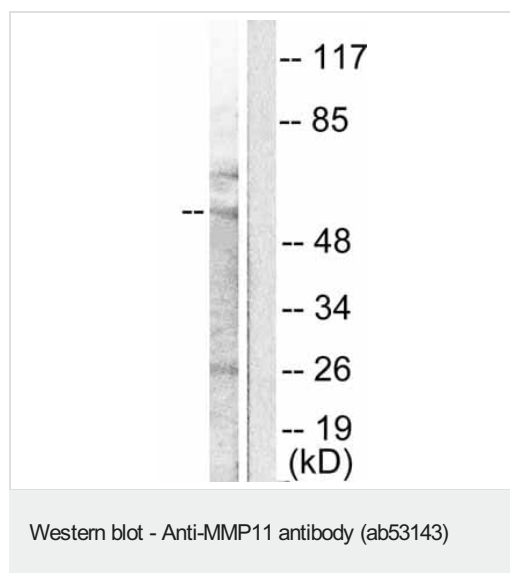
Applications

The Abpromise guarantee   Our **Abpromise guarantee** covers the use of ab53143 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
IHC-P	★★★★☆ (1)	Use a concentration of 2 µg/ml.
WB		1/500 - 1/1000. Detects a band of approximately 62 kDa (predicted molecular weight: 55 kDa).

Target

Function	May play an important role in the progression of epithelial malignancies.
Tissue specificity	Specifically expressed in stromal cells of breast carcinomas.
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.
Post-translational modifications	The precursor is cleaved by a furin endopeptidase.
Cellular localization	Secreted > extracellular space > extracellular matrix.

Images

All lanes : Anti-MMP11 antibody (ab53143) at 1/500 dilution

Lane 1 : A549 cell extract with no peptide
Lane 2 : A549 cell extract with peptide

Predicted band size: 55 kDa
Observed band size: 62 kDa

Western blot - Anti-MMP11 antibody (ab53143)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MMP11 antibody (ab53143)

Ab53143 staining Human normal placenta. Staining is localised to the extracellular matrix (secreted).

Left panel: with primary antibody at 2 ug/ml. Right panel: isotype control.

Sections were stained using an automated system DAKO Autostainer Plus , at room temperature. Sections were rehydrated and antigen retrieved with the Dako 3-in-1 AR buffers EDTA pH 9.0 in a DAKO PT Link. Slides were peroxidase blocked in 3% H_2O_2 in methanol for 10 minutes. They were then blocked with Dako Protein block for 10 minutes (containing casein 0.25% in PBS) then incubated with primary antibody for 20 minutes and detected with Dako Envision Flex amplification kit for 30 minutes. Colorimetric detection was completed with diaminobenzidine for 5 minutes. Slides were counterstained with Haematoxylin and coverslipped under DePeX. Please note that for manual staining we recommend to optimize the primary antibody concentration and incubation time (overnight incubation), and amplification may be require

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

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- Response to your inquiry within 24 hours

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