abcam

Product datasheet

Anti-MMP14 antibody ab53712

★★★★★ 3 Abreviews 29 References 3 Images

Overview

Product name Anti-MMP14 antibody

Description Rabbit polyclonal to MMP14

Host species Rabbit

Tested applications Suitable for: WB, IHC-P

Species reactivity Reacts with: Human

Immunogen Synthetic peptide corresponding to Human MMP14 aa 471-520 (C terminal).

Database link: P50281

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 +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C.

Avoid freeze / thaw cycle.

Storage buffer pH: 7.40

Preservative: 0.02% Sodium azide

Constituents: 50% Glycerol, 0.87% Sodium chloride, 49% PBS

Purity Immunogen affinity purified

Purification notesThe antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-

specific immunogen.

Clonality Polyclonal

Isotype IgG

Applications

1

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab53712 in the following tested applications.

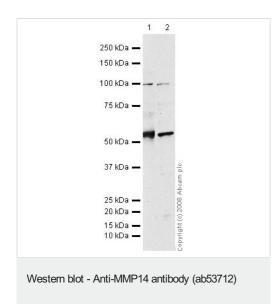
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB	★★★★☆ (2)	1/500 - 1/1000. Detects a band of approximately 66 kDa (predicted molecular weight: 66 kDa).
IHC-P	****(1)	1/50 - 1/100.

Target

Function	Seems to specifically activate progelatinase A. May thus trigger invasion by tumor cells by activating progelatinase A on the tumor cell surface. May be involved in actin cytoskeleton reorganization by cleaving PTK7.	
Tissue specificity	Expressed in stromal cells of colon, breast, and head and neck. Expressed in lung tumors.	
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	Membrane. Melanosome. Identified by mass spectrometry in melanosome fractions from stage I	

Images



All lanes: Anti-MMP14 antibody (ab53712) at 1 μ g/ml

Lane 1 : Human testis tissue lysate - total protein (<u>ab30257</u>)Lane 2 : K562 (Human erythromyeloblastoid leukemia cell line)

Whole Cell Lysate

to stage IV.

Lysates/proteins at 10 µg per lane.

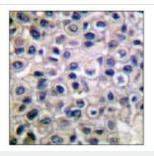
Secondary

All lanes : Goat polyclonal to Rabbit lgG - H&L - Pre-Adsorbed (HRP) at 1/3000 dilution

Predicted band size: 66 kDa **Observed band size:** 66 kDa

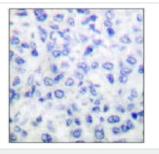
Additional bands at: 100 kDa. We are unsure as to the identity of

these extra bands.



Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-MMP14 antibody (ab53712)

ab53712, at a 1/50 dilution, minus immunising peptide, staining Human MMP14 in Breast Carcinoma, using Immunohistochemsitry, Paraffin embedded tissue.



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

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