

Datasheet for ABIN390136

anti-MMP12 antibody (C-Term)**6** Images**3** Publications[Go to Product page](#)

Overview

| | |
|----------------------|---|
| Quantity: | 400 µL |
| Target: | MMP12 |
| Binding Specificity: | AA 391-420, C-Term |
| Reactivity: | Human, Mouse |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This MMP12 antibody is un-conjugated |
| Application: | Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (IF) |

Product Details

| | |
|---------------|--|
| Immunogen: | This MMP12 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 391-420 amino acids from the C-terminal region of human MMP12. |
| Clone: | RB2026 |
| Isotype: | Ig Fraction |
| Purification: | This antibody is purified through a protein A column, followed by peptide affinity purification. |

Target Details

| | |
|-------------------|--|
| Target: | MMP12 |
| Alternative Name: | MMP12 (MMP12 Products) |

Target Details

Background: 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 MMPs are secreted as inactive proproteins which are activated when cleaved by extracellular proteinases. MMP12 may be involved in tissue injury and remodeling. This protein has significant elastolytic activity. MMP12 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. The protein is found in alveolar macrophages but not in peripheral blood monocytes. MMP12 can be induced by exposure to lipopolysaccharide, and is inhibited by dexamethasone.

Molecular Weight: 54002

Gene ID: 4321

NCBI Accession: [NP_002417](#)

UniProt: [P39900](#)

Application Details

Application Notes: IF: 1:10~50. WB: 1:2000. WB: 1:1000. WB: 1:1000. WB: 1:1000. IHC-P: 1:25

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C, -20 °C

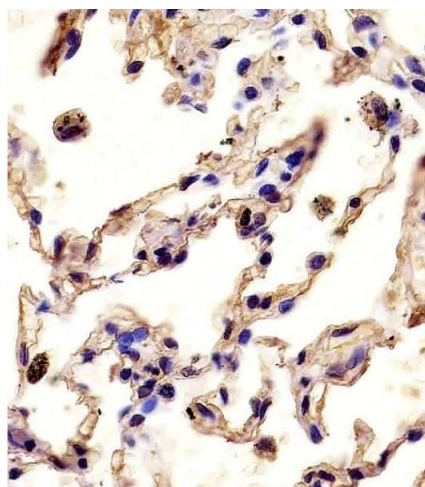
Storage Comment: Maintain refrigerated at 2-8 °C for up to 6 months. For long term storage store at -20 °C in small aliquots to prevent freeze-thaw cycles.

Expiry Date: 6 months

Publications

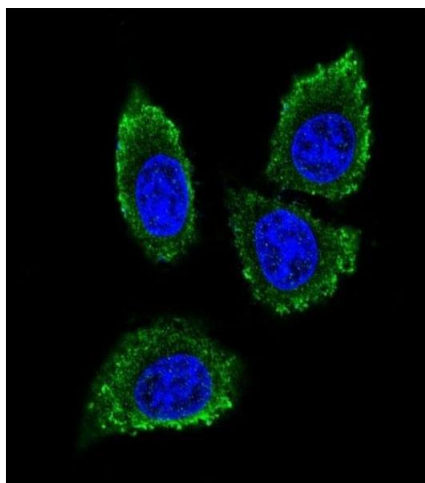
- Product cited in: Du, Wang, Tan, Li, Huang, Huang, Yang, Zhang, Wang, Huang, Huang: "Nkx2-5 Is Expressed in Atherosclerotic Plaques and Attenuates Development of Atherosclerosis in Apolipoprotein E-Deficient Mice." in: **Journal of the American Heart Association**, Vol. 5, Issue 12, (2017) ([PubMed](#)).
- LaPan, Brady, Grierson, Fleming, Miller, Sypek, Fu: "Optimization of total protein and activity assays for the detection of MMP-12 in induced human sputum." in: **BMC pulmonary medicine**, Vol. 10, pp. 40, (2010) ([PubMed](#)).
- Ma, Flanc, Tesch, Bennett, Friedman, Nikolic-Paterson: "Blockade of the c-Jun amino terminal kinase prevents crescent formation and halts established anti-GBM glomerulonephritis in the rat." in: **Laboratory investigation; a journal of technical methods and pathology**, Vol. 89, Issue 4, pp. 470-84, (2009) ([PubMed](#)).

Images



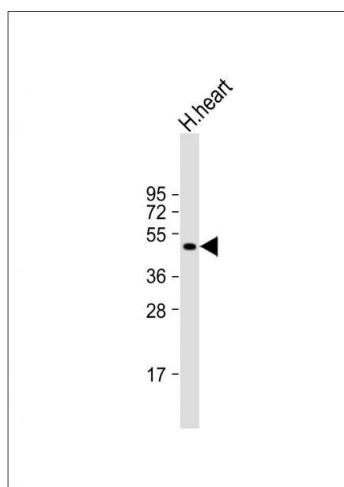
Immunohistochemistry (Paraffin-embedded Sections)

Image 1. (ABIN390136 and ABIN2840640) staining P12 in human lung tissue sections by immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked with 3 % BSA for 0.5 hour at room temperature, antigen retrieval was by heat mediation with a citrate buffer (pH 6). Samples were incubated with primary antibody (1/25) for 1 hour at 37 °C. A undiluted biotinylated goat polyvalent antibody was used as the secondary antibody.



Immunofluorescence

Image 2. Confocal immunofluorescent analysis of P12 Antibody (C-term) (ABIN390136 and ABIN2840640) with 293 cell followed by Alexa Fluor® 488-conjugated goat anti-rabbit IgG (green). DAPI was used to stain the cell nuclear (blue).



Western Blotting

Image 3. Anti-P12 Antibody at 1:2000 dilution + human heart lysate. Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 54 kDa. Blocking/Dilution buffer: 5 % NFDM/TBST.

Please check the [product details page](#) for more images. Overall 6 images are available for ABIN390136.