

Anti-MMP12 Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

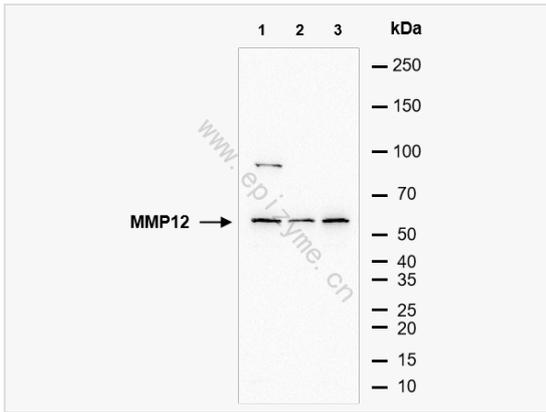
Catalog # R014118

Product Information

Application	WB, IHC-P/IF (Tissue-P), ELISA
Reactivity	Human
Dilution	WB 1:1,000~1:2,000; IHC-P 1:100~1:200; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	15L64B32
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human MMP12
Format	Affinity purified monoclonal antibody supplied in PBS with 0.01% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-MMP12 Rabbit mAb [15L64B32] is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Synonyms	EC 3.4.24.65, HME, Macrophage elastase, Macrophage metalloelastase, Macrophage metalloelastase, Matrix metalloproteinase 12 (macrophage elastase), Matrix metalloproteinase 12, Matrix metalloproteinase-12, ME, MGC138506, MME, MMP 12, MMP-12, Mmp12, MMP12_HUMAN.
Calculated MW	Calculated MW: 54 kDa; Observed MW: 54 kDa, 45 kDa, 22 kDa
Uniprot ID	P39900
Gene ID	4321
Background	MMP-12 lacks a transmembrane domain and furin cleavage site. The zymogen for MMP-12 is about 54 kDa, and is quickly activated to the 45 kDa form, and this breaks down to cascade of active forms, ending with the common 22 kDa form. Stimulated macrophages produce MMP-12; it has also been found in osteosarcoma cells, synovial fibroblasts and lung fibroblasts.
Cellular Location	Secreted > extracellular space > extracellular matrix.
Tissue Location	Found in alveolar macrophages but not in peripheral blood monocytes.



Western Blot - Anti-MMP12 Rabbit mAb [15L64B32]

All lanes: R014118 at 1:1,000 dilution

Lane 1: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates

Lane 2: HepG2 (Human hepatocarcinoma epithelial cell) whole cell lysates

Lane 3: HCT116 (Human colorectal carcinoma epithelial cell) whole cell lysates

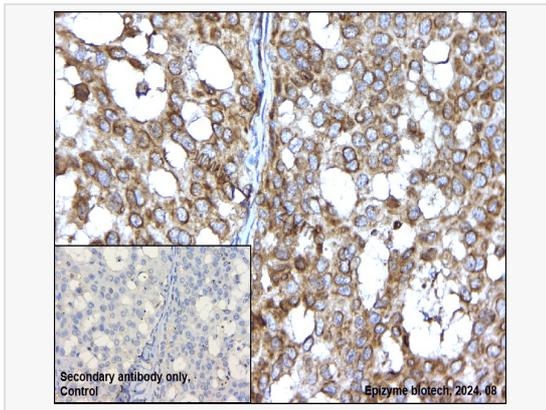
Lysates/proteins at 10 µg per lane.

Secondary antibody: Goat Anti-Rabbit IgG(H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution

Predicted band size: 54 kDa

Observed band size: 54 kDa, 45 kDa, 22 kDa

Developed using the ECL technique (Cat. No. SQ201).



Immunohistochemistry - Anti-MMP12 Rabbit mAb [15L64B32]

Sample: Paraformaldehyde-fixed, paraffin embedded human breast cancer tissue

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.

Primary antibody: R014118 at 1:200 dilution

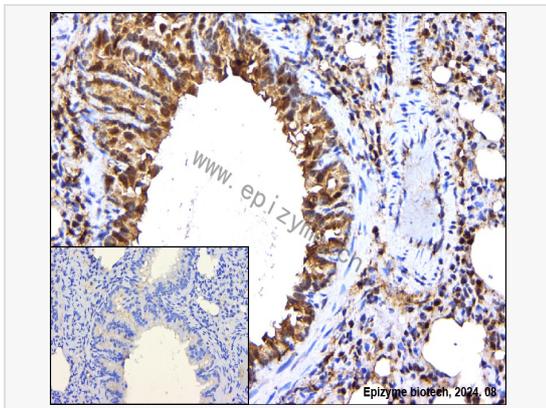
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution

DAB was used as the chromogen.

Counter stained with hematoxylin.

Positive/negative staining were presented.

Only the secondary antibody was used as the negative control.



Immunohistochemistry - Anti-MMP12 Rabbit mAb [15L64B32]

Sample: Paraformaldehyde-fixed, paraffin embedded rat lung tissue

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.

Primary antibody: R014118 at 1:200 dilution

Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution

DAB was used as the chromogen.

Counter stained with hematoxylin.

Positive/negative staining were presented.

Only the secondary antibody was used as the negative control.