

## Anti-MMP14 Antibody (N-term)

Catalog Number: A00656

### About MMP14

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. MMP14 seems to specifically activate progelatinase A, and may thus trigger invasion by tumor cells by activating progelatinase A on the tumor cell surface. Expression is significant in stromal cells of colon, breast, and head and neck.

### Overview

Product Name	Anti-MMP14 Antibody (N-term)
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-MMP14 Antibody (N-term) (Catalog # A00656). Tested in WB, Flow Cytometry, IHC-P application(s). This antibody reacts with Human, Mouse, Rat.
Application	Flow Cytometry, IHC-P, WB
Clonality	Polyclonal
Formulation	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.
Storage Instructions	Maintain refrigerated at 2-8°C for up to 2 weeks. For long-term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P50281

### Technical Details

Immunogen	This MMP14 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 145-174 amino acids from the N-terminal region of human MMP14.
Predicted Reactive Species	Bovine, Pig
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P).
Cross Reactivity	No cross reactivity with other proteins.
Isotype	Rabbit IgG
Form	Liquid
Purification	This antibody is purified through a protein A column, followed by peptide affinity purification.

**Suggested Dilutions**

Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.

If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.

Some PubMed article(s) citing the expression level of this target are as follows:

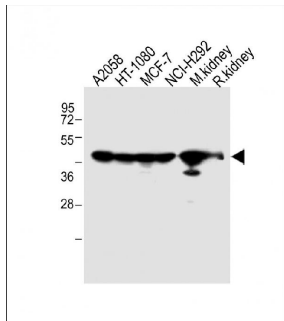
Boster Bio's internal QC testing used:

WB: 1:2000

IHC-P: 1:25

FC: 1:10-1:50

## Anti-MMP14 Antibody (N-term) (A00656) Images



All lanes : Anti-MMP14 Antibody (N-term) at 1:2000 dilution

Lane 1: A2058 whole cell lysate

Lane 2: HT-1080 whole cell lysate

Lane 3: MCF-7 whole cell lysate

Lane 4: NCI-H292 whole cell lysate

Lane 5: Mouse kidney lysate

Lane 5: Rat kidney lysate

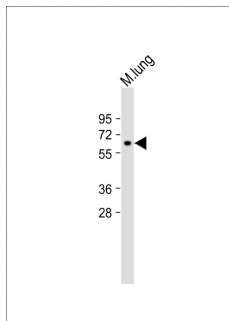
Lysates/proteins at 20 µg per lane.

Secondary

Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution.

Predicted band size : 66 kDa

Blocking/Dilution buffer: 5% NFDM/TBST.



Anti-MMP14 Antibody (N-term) at 1:2000 dilution + Mouse lung lysate

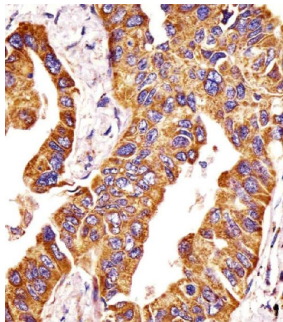
Lysates/proteins at 20 µg per lane.

Secondary

Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution.

Predicted band size : 66 kDa

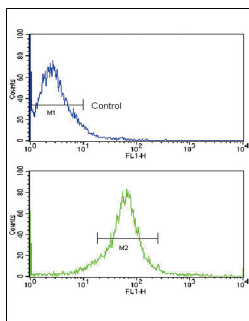
Blocking/Dilution buffer: 5% NFDM/TBST.



A00656 staining MMP14 in human lung adenocarcinoma 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 (pH6). Samples were incubated with primary antibody (1/25) for 1 hours at 37°C. A undiluted biotinylated goat polyvalent antibody was used as the secondary antibody.



Flow cytometric analysis of MCF-7 cells using MMP14

Antibody (N-term) (bottom histogram) compared to a

negative control (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

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