MMP14/MT1-MMP Rabbit mAb

Catalog No.: A0067 Recombinant 3 Publications



Basic Information

Observed MW

52kDa/60kDa

Calculated MW

66kDa

Category

Primary antibody

Applications

WB,IHC-P,FC,ELISA

Cross-Reactivity

Human, Mouse, Rat

CloneNo number

ARC0211

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 MMP's are secreted as inactive proproteins which are activated when cleaved by extracellular proteinases. However, the protein encoded by this gene is a member of the membrane-type MMP (MT-MMP) subfamily; each member of this subfamily contains a potential transmembrane domain suggesting that these proteins are expressed at the cell surface rather than secreted. This protein activates MMP2 protein, and this activity may be involved in tumor invasion.

Recommended Dilutions

WB 1:500 - 1:2000

IHC-P 1:50 - 1:200

FC 1:100 - 1:500

ELISA Recommended starting

concentration is 1 µg/mL.

Please optimize the
concentration based on
your specific assay
requirements.

Immunogen Information

Gene ID Swiss Prot4323
P50281

Immunogen

Synthetic peptide. This information is considered to be commercially sensitive.

Synonyms

MMP-14; MMP-X1; MT-MMP; MT1MMP; MTMMP1; WNCHRS; MT1-MMP; MT-MMP 1; MMP14/MT1-MMP

Contact

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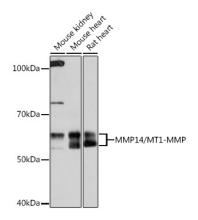
Product Information

SourceIsotypePurificationRabbitIgGAffinity purification

Storage

Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS containing 50% glycerol and 0.05% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.



Western blot analysis of various lysates using MMP14/MMP14/MT1-MMP Rabbit mAb (A0067) at 1[]1000 dilution

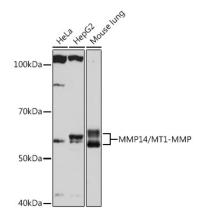
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25µg per lane.

Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

Exposure time: 90s.



Western blot analysis of various lysates using MMP14/MMP14/MT1-MMP Rabbit mAb (A0067) at 1 \square 1000 dilution.

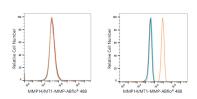
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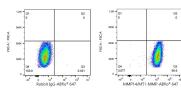
Detection: ECL Basic Kit (RM00020).

Exposure time: 10s.







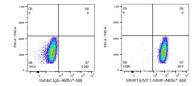


Flow cytometry: 1X10^6 MCF7 cells (negative control,left) and HT-1080 (right) cells were intracellularly-stained with MMP14/MT1-MMP Rabbit mAb (A0067,2 µg/mL,orange line) or ABflo® 488 Rabbit IgG isotype control (AC042,2 µg/mL,blue line), followed by Alexa Fluor® 488 conjugated goat anti-rabbit pAb staining. Nonfluorescently stained cells were used as blank control (red line).

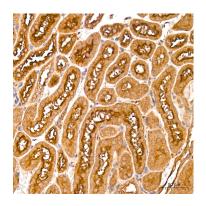
Flow cytometry: 1X10^6 MCF7 cells (negative control,left) and HT-1080 (right) cells were intracellularly-stained with MMP14/MT1-MMP Rabbit mAb (A0067,2 µg/mL,orange line) or ABflo® 488 Rabbit IgG isotype control (AC042,2 µg/mL,blue line), followed by Alexa Fluor® 488 conjugated goat anti-rabbit pAb staining. Nonfluorescently stained cells were used as blank control (red line).

Flow cytometry: 1X10^6 MCF7 cells (negative control,left) and HT-1080 (right) cells were intracellularly-stained with MMP14/MT1-MMP Rabbit mAb (A0067,2 µg/mL,orange line) or ABflo® 647 Rabbit IgG isotype control (AC042,2 µg/mL,blue line), followed by Alexa Fluor® 647 conjugated goat anti-rabbit pAb staining. Nonfluorescently stained cells were used as blank control (red line).

Validation Data



Flow cytometry: 1X10^6 MCF7 cells (negative control,left) and HT-1080 (right) cells were intracellularly-stained with MMP14/MT1-MMP Rabbit mAb (A0067,2 µg/mL,orange line) or ABflo® 647 Rabbit IgG isotype control (AC042,2 µg/mL,blue line), followed by Alexa Fluor® 647 conjugated goat anti-rabbit pAb staining. Nonfluorescently stained cells were used as blank control (red line).



Immunohistochemistry analysis of paraffinembedded Mouse kidney tissue using MMP14/MT1-MMP Rabbit mAb (A0067) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffinembedded Human liver tissue using MMP14/MT1-MMP Rabbit mAb (A0067) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffinembedded Human spleen tissue using MMP14/MT1-MMP Rabbit mAb (A0067) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.