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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
4323

Swiss Prot
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

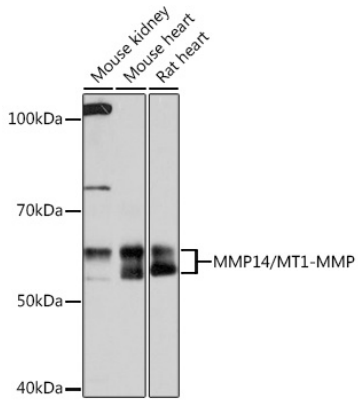
Source
Rabbit

Isotype
IgG

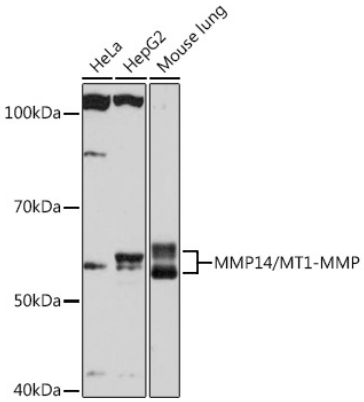
Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS with 0.02% sodium azide,0.05% BSA,50% glycerol,pH7.3.

Validation Data



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.



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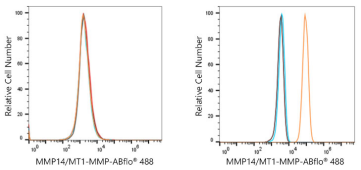
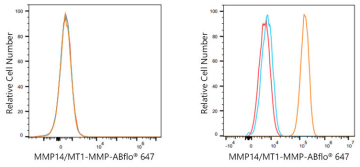
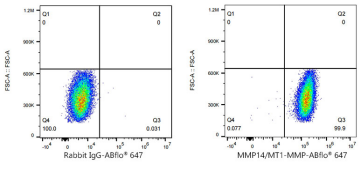
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 10s.



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. Non-fluorescently stained cells were used as blank control (red line).

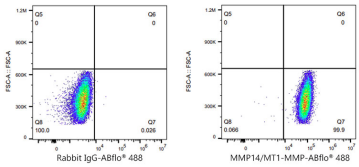


Flow cytometry: 1X10^6 MCF7 cells (negative control,left) and HT-1080 (right) cells were intracellularly-stained with MMP14/MT1-MMP Rabbit mAb (A0067,2 µg/mL,orange line) or ABflo® 488 Rabbit IgG isotype control (AC042,2 µg/mL,blue line), followed by Alexa Fluor® 488 conjugated goat anti-rabbit pAb staining.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

Validation Data



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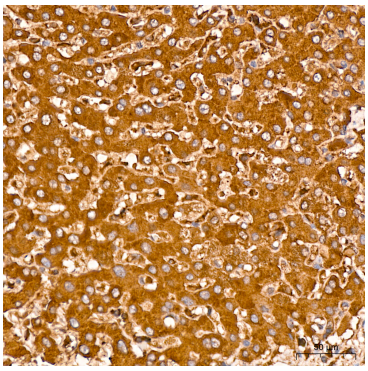
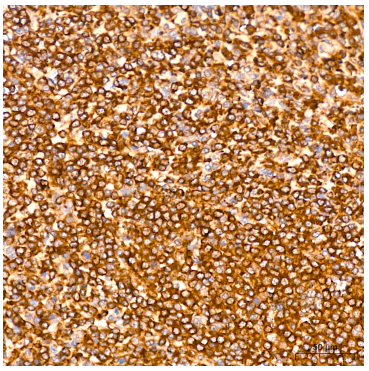
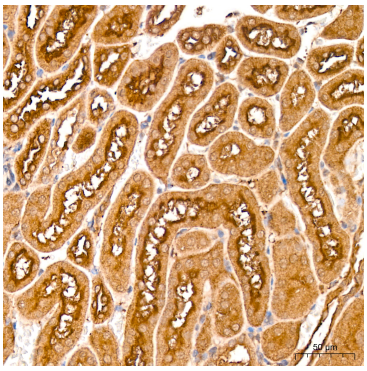


Immunohistochemistry analysis of paraffin-embedded Human liver tissue using MMP14/MT1-MMP Rabbit mAb (A0067) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded 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.



Immunohistochemistry analysis of paraffin-embedded 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.