

MMP13 Recombinant Rabbit Monoclonal Antibody (3H13L17)

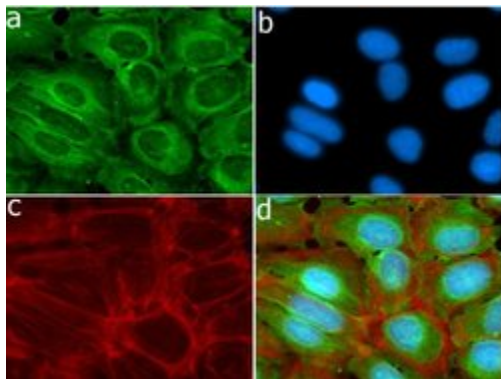
Product Details	
Size	100 µg
Species	Human
Expression System	Rabbit / IgG
Class	Recombinant Monoclonal
Type	Antibody
Clone	3H13L17
Conjugate	Unconjugated
Immunogen	Recombinant protein corresponding to amino acids 221–471 of human MMP-13
Form	Liquid
Concentration	0.5 mg/mL
Purification	Protein A
Storage buffer	PBS
Contains	0.09% sodium azide
Storage Conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
RRID	AB_2532459

Applications	Tested Dilution	Publications
Immunocytochemistry (ICC)	1 µg/mL	-
Immunofluorescence (IF)	1 µg/mL	-
Immunohistochemistry (Paraffin) (IHC (P))	1:20-1:200	-
Western Blot (WB)	1-3 µg/mL	1 Publication

Product Specific Information

This antibody is predicted to react with mouse, rat, non-human primate and rabbit based on sequence homology. Intact IgG appears on a non-reducing gel as ~150 kDa band and upon reduction generating a ~25 kDa light chain band and a ~50 kDa heavy chain. Recombinant rabbit monoclonal antibodies are produced using in vitro expression systems. The expression systems are developed by cloning in the specific antibody DNA sequences from immunoreactive rabbits. Then, individual clones are screened to select the best candidates for production. The advantages of using recombinant rabbit monoclonal antibodies include: better specificity and sensitivity, lot-to-lot consistency, animal origin-free formulations, and broader immunoreactivity to diverse targets due to larger rabbit immune repertoire.

Product Images For MMP13 Recombinant Rabbit Monoclonal Antibody (3H13L17)

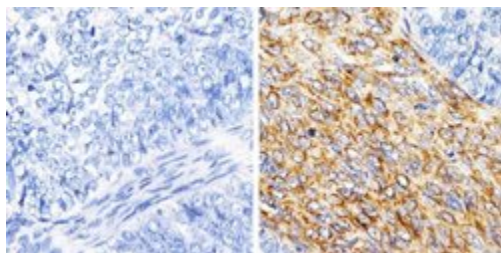


MMP13 Antibody (701287) in IF

Immunofluorescent analysis of MMP-13 in HeLa cells using a MMP-13 recombinant rabbit monoclonal antibody (Product # 701287) followed by detection using an Alexa Fluor 488-conjugated goat anti-rabbit secondary antibody (green) (Image A). Nuclei were stained using DAPI (Image B) and actin stained with Alexa Fluor 594 phalloidin (red) (image C). Image D is a composite image showing nuclear localization of MMP-13.

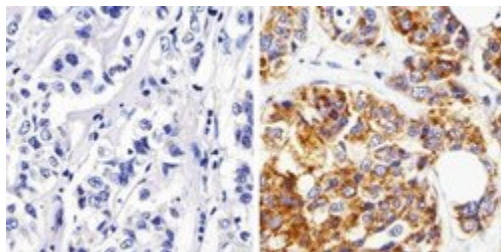
MMP13 Antibody (701287) in IHC (P)

Immunohistochemistry analysis of MMP-13/Collagenase-4 showing staining in the cytoplasm of paraffin-embedded human ovarian carcinoma (right) compared to a negative control without primary antibody (left). To expose target proteins, antigen retrieval was performed using 10 mM sodium citrate (pH 6.0), microwaved for 8-15 min. Following antigen retrieval, tissues were blocked in 3% H₂O₂-methanol for 15 min at room temperature, washed with ddH₂O and PBS, and then probed with MMP-13/Collagenase-4 monoclonal antibody (Product # 701287) diluted in 3% BSA-PBS at a dilution of 1:100 overnight at 4°C in a humidified chamber. Tissues were washed extensively in PBST and detection was performed using a HRP-conjugated secondary antibody followed by colorimetric detection using a DAB kit. Tissues were counterstained with hematoxylin and dehydrated with ethanol and xylene to prep for mounting.



MMP13 Antibody (701287) in IHC (P)

Immunohistochemistry analysis of MMP-13/Collagenase-3 showing staining in the cytoplasm of paraffin-embedded human breast carcinoma (right) compared to a negative control without primary antibody (left). To expose target proteins, antigen retrieval was performed using 10 mM sodium citrate (pH 6.0), microwaved for 8-15 min. Following antigen retrieval, tissues were blocked in 3% H₂O₂-methanol for 15 min at room temperature, washed with ddH₂O and PBS, and then probed with MMP-13/Collagenase-3 Monoclonal antibody (Product # 701287) diluted in 3% BSA-PBS at a dilution of 1:50 overnight at 4°C in a humidified chamber. Tissues were washed extensively in PBST and detection was performed using a HRP-conjugated secondary antibody followed by colorimetric detection using a DAB kit. Tissues were counterstained with hematoxylin and dehydrated with ethanol and xylene to prep for mounting.



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Western Blot (1)

Proceedings of the National Academy of Sciences of the United States of America

Distinct biological events generated by ECM proteolysis by two homologous collagenases.

"Published figure using MMP13 monoclonal antibody (Product # 701287) in Western Blot"

Authors: Solomonov I, Zehorai E, Talmi-Frank D, Wolf SG, Shainskaya A, Zhuravlev A, Kartvelishvily E, Visse R, Levin Y, Kampf N, Jaitin DA, David E, Amit I, Nagase H, Sagi I

Species
Not Applicable

Dilution
Not Cited

Year
2016

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