

MMP13 Recombinant Polyclonal Antibody (3HCLC)

Product Details	
Size	100 µg
Species Reactivity	Human
Host/Isotype	Rabbit / IgG
Expression system	Expi293
Class	Recombinant Polyclonal
Type	Antibody
Clone	3HCLC
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_2532680

Applications	Tested Dilution	Publications
Western Blot (WB)	1-3 µg/mL	-
Immunohistochemistry (Paraffin) (IHC (P))	1:50-1:200	-
Immunocytochemistry (ICC/IF)	1 µg/mL	-

Product Specific Information

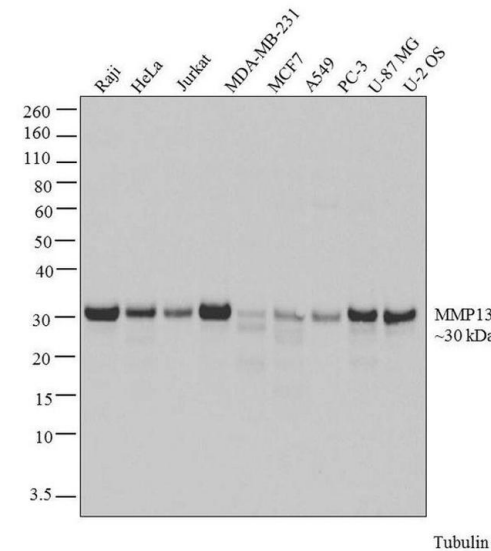
This antibody is predicted to react with mouse, rat, non-human primate and rabbit based on sequence homology.

Recombinant rabbit polyclonal antibodies are unique offerings from Thermo Fisher Scientific. They are comprised of a selection of multiple different recombinant monoclonal antibodies, providing the best of both worlds - the sensitivity of polyclonal antibodies with the specificity of monoclonal antibodies - all delivered with the consistency only found in a recombinant antibody. While functionally the same as a polyclonal antibody - recognizing multiple epitope sites on the target and producing higher detection sensitivity for low abundance targets - a recombinant rabbit polyclonal antibody has a known mixture of light and heavy chains. The exact population can be produced in every lot, circumventing the biological variability typically associated with polyclonal antibody production.

Product Images For MMP13 Recombinant Polyclonal Antibody (3HCLC)

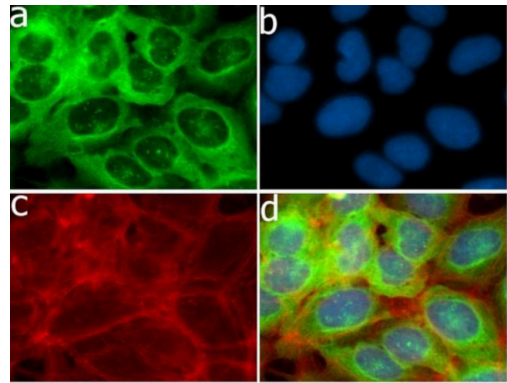
MMP13 Antibody (710311) in WB

Western blot analysis of MMP13 was performed by loading 20 µg of Raji (lane1), HeLa (lane2), Jurkat (lane3), MDA-MB-231 (lane4), MCF7 (lane5), A549 (lane6), PC-3 (lane7), U-87 MG (lane8) and U2OS (lane9) cell lysates using Novex®NuPAGE®4-12 % Bis-Tris gel (Product # NP0321BOX), XCell SureLock Electrophoresis System (Product # EI0002), Novex® Sharp Pre-Stained Protein Standard (Product # LC5800), and iBlot® Dry Blotting System (Product # IB21001). Proteins were transferred to a nitrocellulose membrane and blocked with 5 % skim milk 4°C overnight. MMP13 was detected at ~30 kDa using MMP13 Recombinant Rabbit Polyclonal Antibody (Product # 710311) at 1-3 µg/mL in 2.5 % skim milk for 3 hours at room temperature on a rocking platform. Goat anti-Rabbit IgG-HRP Secondary Antibody (Product # G-21234) at 1:5000 dilution was used and chemiluminescent detection was performed using Pierce™ ECL Western blotting Substrate (Product # 32106).



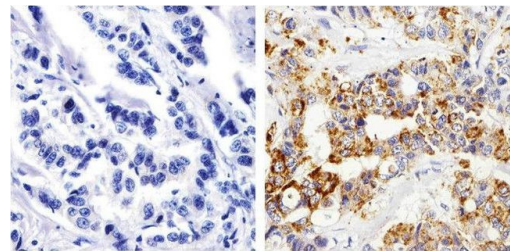
MMP13 Antibody (710311) in ICC/IF

Immunofluorescent analysis of MMP-13 in HeLa cells using a MMP-13 Recombinant Rabbit Polyclonal Antibody (Product # 710311) 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 (710311) in IHC (P)

Immunohistochemistry analysis of MMP13 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 10mM 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 a MMP13 Recombinant Rabbit Polyclonal Antibody (Product # 710311) 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 an 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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