

# MMP14 Polyclonal Antibody

Product Details	
Size	500 µL
Species Reactivity	Human, Mouse
Published Species	Mouse
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	A synthetic peptide from the hemopexin-like domain of human MMP-14 / MT1-MMP
Form	Liquid
Concentration	1 mg/mL
Purification	Protein A
Storage buffer	PBS, pH 7.4, with 0.2% BSA
Contains	0.09% sodium azide
Storage conditions	4° C
RRID	AB_10977838

Applications	Tested Dilution	Publications
Western Blot (WB)	2 µg/mL	1 Publication
Immunocytochemistry (ICC/IF)	-	1 Publication

## Product Specific Information

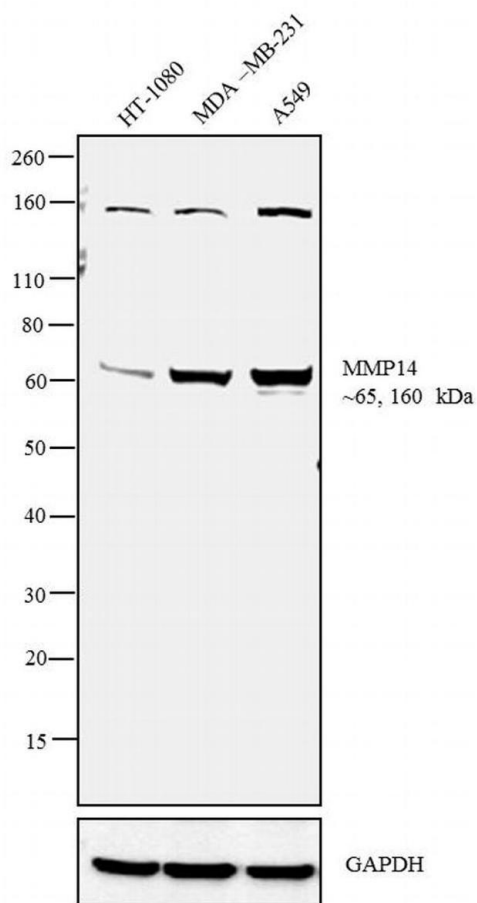
PA5-16514 targets MMP-14 in WB applications and shows reactivity with mouse and Human samples.

The PA5-16514 immunogen is a synthetic peptide from the hemopexin-like domain of human MMP-14 / MT1-MMP.

## Product Images For MMP14 Polyclonal Antibody

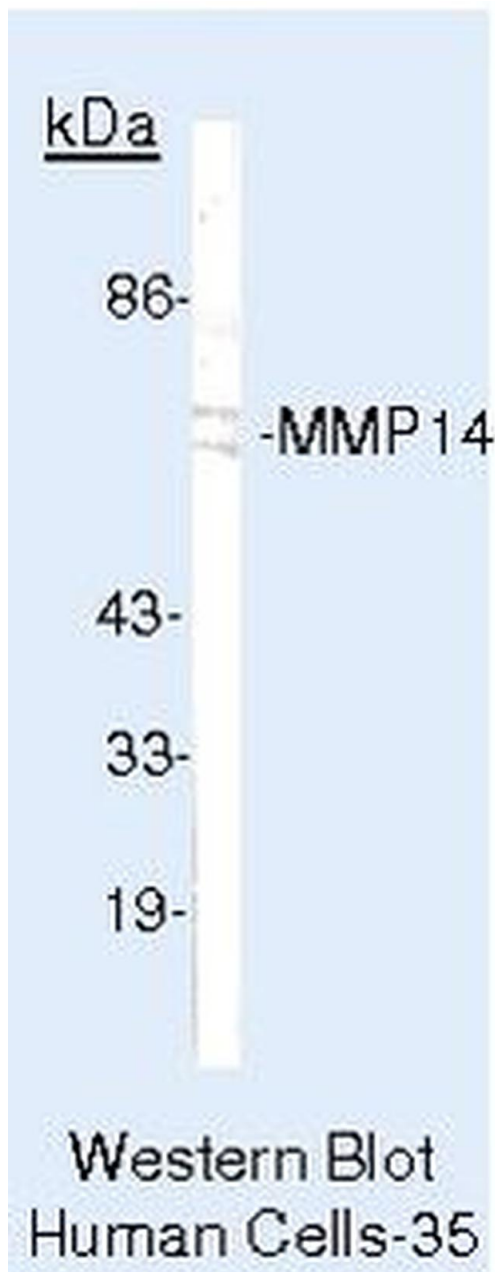
### MMP14 Antibody (PA5-16514) in WB

Western blot analysis was performed on whole cell extracts (30 µg lysate) of HT-1080 (Lane 1), MDA-MB-231 (Lane 2) and A549 (Lane 3). The blot was probed with Rabbit Anti-MMP14 Polyclonal Antibody (Product # PA5-16514, 2µg/mL) and detected by chemiluminescence using Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Secondary Antibody, HRP conjugate (Product # A27036, 0.4 µg/mL, 1:2500 dilution). A 65 kDa band corresponding to MMP14 was observed across the cell lines tested, an additional band of 160 kDa corresponding to the oligomer form of MMP-14 was also detected. Known quantity of protein samples were electrophoresed using Novex® NuPAGE® 4-12 % Bis-Tris gel (Product # NP0321BOX), XCell SureLock™ Electrophoresis System (Product # EI0002) and Novex® Sharp Pre-Stained Protein Standard (Product # LC5800). Resolved proteins were then transferred onto a nitrocellulose membrane with iBlot® 2 Dry Blotting System (Product # IB21001). The membrane was probed with the relevant primary and secondary Antibody following blocking with 5 % skimmed milk. Chemiluminescent detection was performed using Pierce™ ECL Western Blotting Substrate (Product # 32106).



### MMP14 Antibody (PA5-16514) in WB

Western blot of MMP-14 using MMP-14 Polyclonal Antibody (Product # PA5-16514) on HFL-1+TPA med Cells.



Western Blot (1)

Journal of the American Heart Association	Year 2022
Inflammatory Role of Milk Fat Globule-Epidermal Growth Factor VIII in Age-Associated Arterial Remodeling.	
"Published figure using MMP14 polyclonal antibody (Product # PA5-16514) in Western Blot"	
Authors: Ni L,Liu L,Zhu W,Telljohann R,Zhang J,Monticone RE,McGraw KR,Liu C,Morrell CH,Garrido-Gil P,Labandeira-Garcia JL,Lakatta EG,Wang M	

Immunocytochemistry (1)

Biology of reproduction	Year 2018
Effects of excess thromboxane A2 on placental development and nutrient transporters in a Mus musculus model of fetal growth restriction.	Species Mouse
"PA5-16514 was used in Western Blotting to conclude that early-to-mid gestation hypertensive placentae show compensatory mechanisms to preserve fetal growth by increasing placental efficiencies and maintaining abundance of important nutrient transporters."	
Authors: Gibbins KJ,Gibson-Corley KN,Brown AS,Wieben M,Law RC,Fung CM	
Dilution 1:100	

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