

Cytokeratin 5 Monoclonal Antibody (XM26)

Product Details

Size	500 µL
Species Reactivity	Human
Published Species	Human, Mouse
Host/Isotype	Mouse / IgG1, kappa
Class	Monoclonal
Type	Antibody
Clone	XM26
Conjugate	Unconjugated
Immunogen	Recombinant protein corresponding to C-terminal 103 aa of cytokeratin 5
Form	Liquid
Concentration	Conc. Not Determined
Storage buffer	tissue culture supernatant
Contains	0.09% sodium azide
Storage conditions	4° C
RRID	AB_11008032

Applications	Tested Dilution	Publications
Western Blot (WB)	1:1,000	2 Publications
Immunohistochemistry (IHC)	-	28 Publications
Immunohistochemistry (Paraffin) (IHC (P))	1:20-1:100	6 Publications
Immunohistochemistry (Frozen) (IHC (F))	1:2,000	-
Immunocytochemistry (ICC/IF)	1:200-1:250	8 Publications
Immunoprecipitation (IP)	-	1 Publication
In vitro Assay (IV)	-	1 Publication

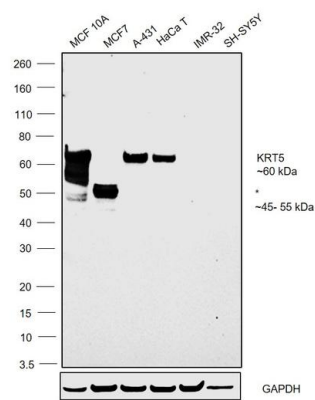
Product Specific Information

MA5-12596 targets Cytokeratin 5 in IHC (P) applications and shows reactivity with Human samples.

The MA5-12596 immunogen is recombinant protein corresponding to C-terminal 103 aa of cytokeratin 5.

Product Images For Cytokeratin 5 Monoclonal Antibody (XM26)

Cytokeratin 5 Antibody (MA5-12596) in WB



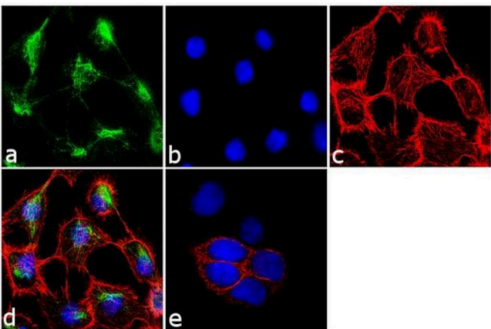
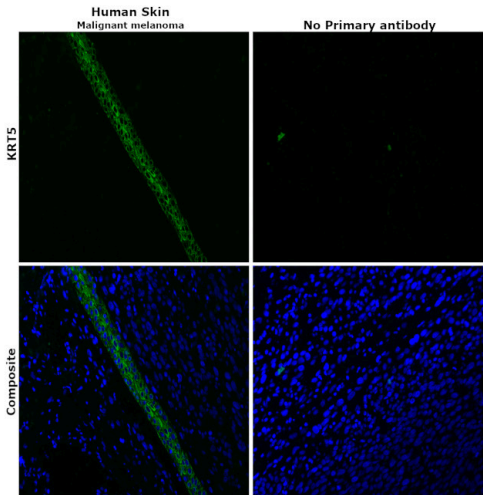
Western blot was performed using Anti-Cytokeratin 5 Monoclonal Antibody (XM26) (Product # MA5-12596) and a 60kDa band corresponding to Cytokeratin 5 was observed across the cell lines tested except MCF7, IMR-32 and SH-SY5Y along with non specific bands around 45-55 kDa. Whole cell extracts (30 µg lysate) of MCF 10A (Lane 1), MCF7 (Lane 2), A-431 (Lane 3), HaCaT (Lane 4), IMR-32 (Lane 5), SH-SY5Y (Lane 6) were electrophoresed using NuPAGE™ 4-12% Bis-Tris Protein Gel (Product # NP0321BOX). Resolved proteins were then transferred onto a Nitrocellulose membrane (Product # LC2001) by iBlot® 2 Dry Blotting System (Product # IB21001). The blot was probed with the primary antibody (1:1000 dilution) and detected by chemiluminescence with Goat anti-Mouse IgG (H+L) Superclonal™ Recombinant Secondary Antibody, HRP (Product # A28177, 1:4000 dilution) using the iBright FL 1000 (Product # A32752). Chemiluminescent detection was performed using Novex® ECL Chemiluminescent Substrate Reagent Kit (Product # WP20005).

Cytokeratin 5 Antibody (MA5-12596) in IHC (P)

Immunohistochemical analysis of KRT5 was performed using formalin-fixed paraffin-embedded human skin (malignant melanoma) tissue sections. To expose the target protein, heat-induced epitope retrieval was performed on de-paraffinized sections using eBioscience™ IHC Antigen Retrieval Solution - Low pH (10X) (Product # 00-4955-58) diluted to 1X solution in water in a decloaking chamber at 110 degree Celsius for 15 minutes. Following antigen retrieval, the sections were blocked with 2% normal goat serum in 1X PBS for 45 minutes at room temperature and then probed with or without Cytokeratin 5 Monoclonal Antibody (XM26) (Product # MA5-12596) at 1:100 dilution in 0.1% normal goat serum overnight at 4 degree Celsius in a humidified chamber. Detection was performed using Goat anti-Mouse IgG (H+L) Highly Cross-Adsorbed Secondary Antibody, Alexa Fluor Plus 488 (Product # A32723) at a dilution of 1:2000 in 0.1% normal goat serum for 45 minutes at room temperature. ReadyProbes™ Tissue Autofluorescence Quenching Kit (Product # R37630) was used to quench autofluorescence from the tissues. Nuclei were stained with DAPI (Product # D1306) and the sections were mounted using ProLong™ Glass Antifade Mountant (Product # P36984). The images were captured on EVOS™ M7000 Imaging System (Product # AMF7000) at 20X magnification.

Cytokeratin 5 Antibody (MA5-12596) in ICC/IF

Immunofluorescence analysis of Cytokeratin 5 was performed using 70% confluent log phase A-431 cells. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 10 minutes, and blocked with 1% BSA for 1 hour at room temperature. The cells were labeled with Cytokeratin 5 (XM26) Mouse Monoclonal Antibody (Product # MA5-12596) at 1:250 dilution in 0.1% BSA and incubated for 3 hours at room temperature and then labeled with Goat anti-Mouse IgG (H+L) Superclonal™ Secondary Antibody, Alexa Fluor® 488 conjugate (Product # A28175) at a dilution of 1:2000 for 45 minutes at room temperature (Panel a: green). Nuclei (Panel b: blue) were stained with SlowFade® Gold Antifade Mountant with DAPI (Product # S36938). F-actin (Panel c: red) was stained with Rhodamine Phalloidin (Product # R415, 1:300). Panel d represents the merged image showing cytoplasmic localization. Panel e shows the no primary antibody control. The images were captured at 60X magnification.



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Western Blot (2)

<p>Molecular carcinogenesis</p> <p>Common tumor-suppressive signaling of thyroid hormone receptor beta in breast and thyroid cancer cells.</p> <p>"Published figure using Cytokeratin 5 monoclonal antibody (Product # MA5-12596) in Western Blot"</p> <p>Authors: Bolf EL,Gillis NE,Davidson CD,Cozzens LM,Kogut S,Tomczak JA,Frietze S,Carr FE</p>	<p>Year 2021</p>
<p>Oncogene</p> <p>Prolactin suppresses a progesterin-induced CK5-positive cell population in luminal breast cancer through inhibition of progesterin-driven BCL6 expression.</p> <p>"Published figure using Cytokeratin 5 monoclonal antibody (Product # MA5-12596) in Western Blot"</p> <p>Authors: Sato T,Tran TH,Peck AR,Girondo MA,Liu C,Goodman CR,Neilson LM,Freydin B,Chervoneva I,Hyslop T, Kovatich AJ,Hooke JA,Shriver CD,Fuchs SY,Rui H</p>	<p>Year 2014</p> <p>Species Human</p>

Immunohistochemistry (28)

<p>JID innovations : skin science from molecules to population health</p> <p>Fibulin-4 Accelerates Amyloid Formation by Binding with a Keratin 5 Peptide Fragment.</p> <p>"Published figure using Cytokeratin 5 monoclonal antibody (Product # MA5-12596) in Immunohistochemistry"</p> <p>Authors: Katagiri F,Ueo D,Okubo-Gunge Y,Usui A,Kuwatsuka S,Mine Y,Hamada K,Fujiwara S,Sasaki T,Nomizu M, Utani A</p>	<p>Year 2022</p>
<p>Polish journal of pathology : official journal of the Polish Society of Pathologists</p> <p>High Ki-67 expression is a marker of poor survival in apocrine breast carcinoma.</p> <p>"MA5-12596 was used in Immunohistochemistry to analyse biological and clinical features of apocrine carcinoma and their influence on patients survival."</p> <p>Authors: Wysocka J,Adamczyk A,Kruczak A,Niemiec J,Sas-Korczynska B</p>	<p>Year 2020</p> <p>Species Human</p> <p>Dilution 1:80</p>

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- IHC (P) (6)
- ICC/IF (8)
- IP (1)
- IV (1)

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