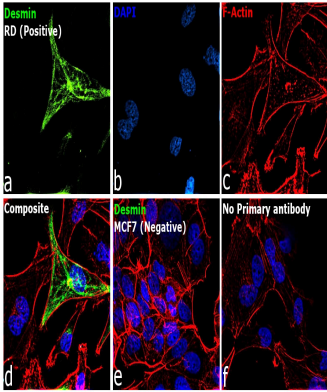
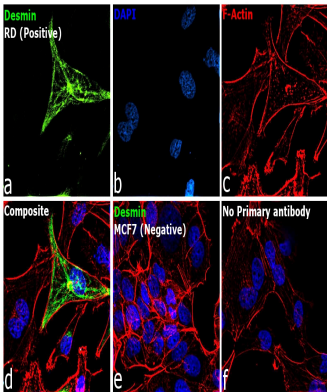


Product Images For Desmin Monoclonal Antibody (D33)



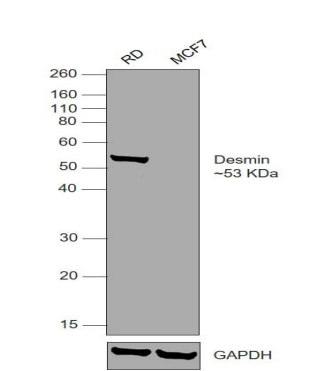
Desmin Antibody (MA5-13259)

Antibody specificity was demonstrated by detection of differential basal expression of the target across cell models owing to their inherent genetic constitution. Immunofluorescence analysis using Anti-Desmin Monoclonal Antibody (D33) (Product # MA5-13259) shows expression of desmin in RD cells when compared to no expression in MCF7 cells. {RE}



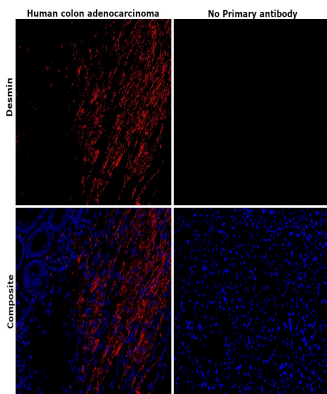
Desmin Antibody (MA5-13259) in ICC/IF

Immunofluorescence analysis of desmin was performed using 70% confluent log phase RD cells. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 15 minutes, and blocked with 2% BSA for 1 hour at room temperature. The cells were labeled with Desmin Monoclonal Antibody (D33) (Product # MA5-13259) at 1:100 dilution in 0.1% BSA, incubated at 4 degree celsius overnight and then labeled with Donkey anti-Mouse IgG (H+L) Highly Cross-Adsorbed Secondary Antibody, Alexa Fluor Plus 488 (Product # A32766, 1:2000 dilution), for 45 minutes at room temperature (Panel a: Green). Nuclei (Panel b: Blue) were stained with ProLong™ Diamond Antifade Mountant with DAPI (Product # P36962). F-actin (Panel c: Red) was stained with Rhodamine Phalloidin (Product # R415, 1:300). Panel d represents the merged image showing cytoskeletal localization. Panel e represents MCF7 cells with no expression of Desmin. Panel f represents control cells with no primary antibody to assess background. The images were captured at 60X magnification.



Desmin Antibody (MA5-13259)

Antibody specificity was demonstrated by detection of differential basal expression of the target across the cell lines tested owing to their inherent genetic constitution. Relative expression of desmin was observed in RD as compared to no expression in MCF7 using Anti-Desmin Monoclonal Antibody (D33) (Product # MA5-13259) in Western Blot. {RE}



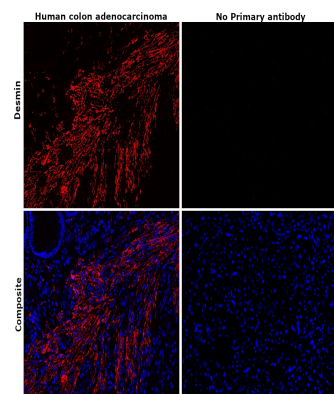
Desmin Antibody (MA5-13259) in IHC (P)

Immunohistochemical analysis of desmin was performed using formalin-fixed paraffin-embedded human colon adenocarcinoma 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 3% H2O2 for 1 h at toom temperature followed by 2% normal goat serum in 1X PBS for 45 minutes at room temperature. The sections were then probed with or without Desmin Monoclonal Antibody (D33) (Product # MA5-13259) at 1:5000 dilution in 0.1% normal goat serum overnight at 4 degree Celsius in a humidified chamber. Detection was performed using Alexa Fluor™ 647 Tyramide SuperBoost™ Kit, goat anti-mouse IgG (Product # B40916). 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 and externally deconvoluted.

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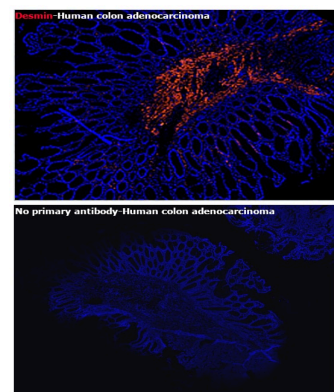
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Desmin Antibody (MA5-13259) in IHC (P)

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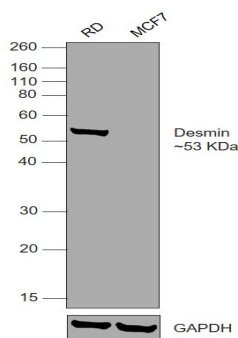


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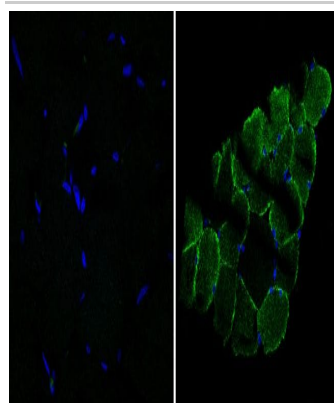
Desmin Antibody (MA5-13259) in WB

Western blot was performed using Anti-Desmin Monoclonal Antibody (D33) (Product # MA5-13259) and a 53 kDa band corresponding to desmin was observed in RD as compared to no expression in MCF7. Whole cell extracts (30 µg lysate) of RD (Lane 1) and MCF7 (Lane 2) were electrophoresed using NuPAGE™ 10% Bis-Tris Protein Gel (Product # NP0302BOX), 12 well. Resolved proteins were then transferred onto a nitrocellulose membrane (Product # IB23001) 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, 1:10000 dilution) using the iBright™ FL1500 Imaging System (Product # A44115). Chemiluminescent detection was performed using SuperSignal™ West Atto Ultimate Sensitivity Substrate (Product # A38556).



Desmin Antibody (MA5-13259) in ICC/IF

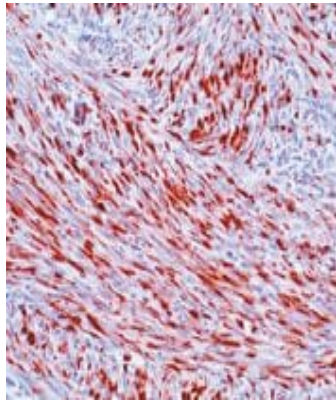
Immunofluorescent analysis of Desmin (green) showing staining in the cytoplasm of human skeletal muscle (right) compared to a negative control without primary antibody (left). Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with a Desmin monoclonal antibody (Product # MA5-13259) in 3% BSA-PBS at a dilution of 1:20 and incubated overnight at 4°C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight-conjugated secondary antibody in PBS at room temperature in the dark. F-actin (red) was stained with a fluorescent red phalloidin and nuclei (blue) were stained with Hoechst or DAPI. Images were taken at a magnification of 60x.



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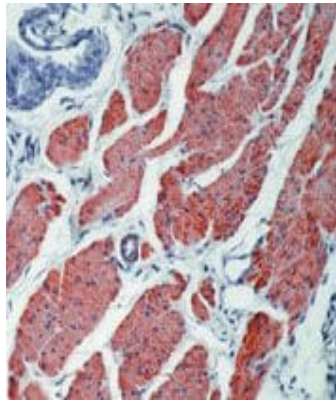
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Desmin Antibody (MA5-13259) in IHC (P)

Formalin-fixed, paraffin-embedded human leiomyoma stained with Desmin antibody using peroxidase-conjugate and AEC chromogen. Note cytoplasmic staining of muscle cells.



Desmin Antibody (MA5-13259) in IHC (P)

Formalin-fixed, paraffin-embedded rat bladder stained with Desmin antibody using peroxidase-conjugate and AEC chromogen. Note cytoplasmic staining of muscle cells.

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