

Anti-Desmin antibody [Y66] - Cytoskeleton Marker ab32362

重组 RabMAb

★★★★★ **12 Abreviews** **151 References** **18 图像**

概述

产品名称	Anti-Desmin抗体[Y66] - Cytoskeleton Marker
描述	兔单克隆抗体[Y66] to Desmin - Cytoskeleton Marker
宿主	Rabbit
经测试应用	适用于: WB, IHC-P, Flow Cyt (Intra), ICC/IF 不适用于: IP
种属反应性	与反应: Mouse, Rat, Guinea pig, Human
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
表位	ab32362 reacts with an epitope located in the C terminal region of desmin.
阳性对照	WB: Human skeletal muscle, fetal heart and fetal muscle tissue lysates. Mouse and rat heart tissue lysates. Guinea pig heart and muscle tissue lysates; ICC/IF: A673 and C2C12 cells, ioSkeletal Myocytes - Human iPSC-Derived Skeletal Myocytes (ab277612); IHC-P: Human skeletal muscle, uterus and urinary bladder tissues; Flow Cyt (intra): C2C12 and HeLa cells.
常规说明	This product is a recombinant monoclonal antibody, which offers several advantages including: <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information see here . Our RabMAb [®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents .

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle.
存储溶液	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol, 0.05% BSA
纯度	Protein A purified

克隆	单克隆
克隆编号	Y66
同种型	IgG

应用

The Abpromise guarantee **Abpromise™**承诺保证使用ab32362于以下的经测试应用

“应用说明”部分下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
WB	★★★★★ (2)	1/100000. Predicted molecular weight: 53 kDa.
IHC-P	★★★★★ (4)	1/2000. Perform heat mediated antigen retrieval before commencing with IHC staining protocol. See IHC antigen retrieval protocols .
Flow Cyt (Intra)		1/70. ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
ICC/IF	★★★★★ (5)	1/100 - 1/1000.

应用说明 Is unsuitable for IP.

靶标

功能	Desmin are class-III intermediate filaments found in muscle cells. In adult striated muscle they form a fibrous network connecting myofibrils to each other and to the plasma membrane from the periphery of the Z-line structures.
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疾病相关

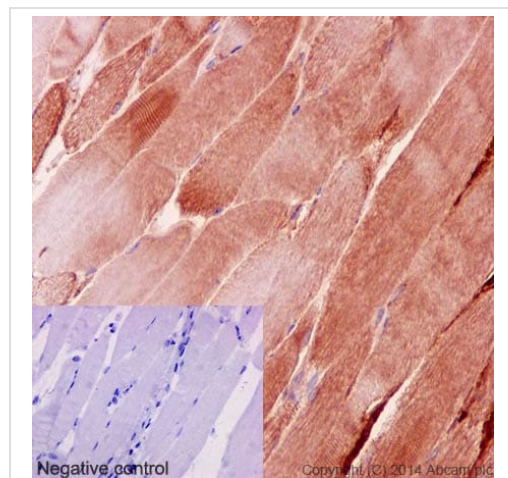
Defects in DES are the cause of myopathy myofibrillar disease-related (MFM-DES) [MIM:601419]; also known as desmin-related myopathy (DRM). A neuromuscular disorder characterized by skeletal muscle weakness associated with cardiac conduction blocks, arrhythmias, restrictive heart failure, and by myofibrillar destruction with intracytoplasmic accumulation of desmin-reactive deposits in cardiac and skeletal muscle cells.

Defects in DES are the cause of cardiomyopathy dilated type 1I (CMD1I) [MIM:604765]. Dilated cardiomyopathy is a disorder characterized by ventricular dilation and impaired systolic function, resulting in congestive heart failure and arrhythmia. Patients are at risk of premature death.

Defects in DES are the cause of neurogenic scapuloperoneal syndrome Kaeser type (Kaeser syndrome) [MIM:181400]. Kaeser syndrome is an autosomal dominant disorder with a peculiar scapuloperoneal distribution of weakness and atrophy. A large clinical variability is observed ranging from scapuloperoneal, limb girdle and distal phenotypes with variable cardiac or respiratory involvement. Facial weakness, dysphagia and gynaecomastia are frequent additional symptoms. Affected men seemingly bear a higher risk of sudden, cardiac death as compared to affected women. Histological and immunohistochemical examination of muscle biopsy specimens reveal a wide spectrum of findings ranging from near normal or unspecific pathology to typical, myofibrillar changes with accumulation of desmin.

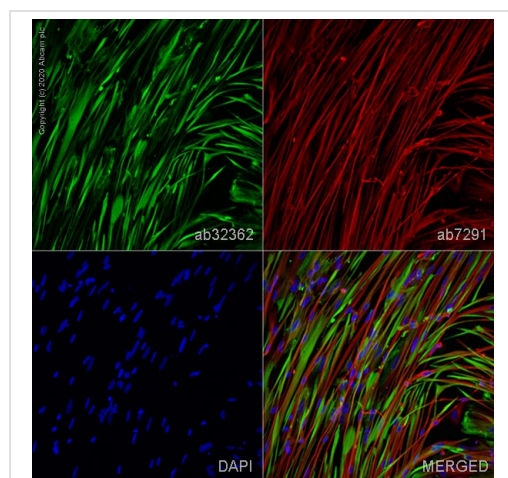
序列相似性 Belongs to the intermediate filament family.

图片



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Desmin antibody [Y66] - Cytoskeleton Marker (ab32362)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human skeletal muscle tissue labelling Desmin with purified ab32362 at 1/2000. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9. **ab97051**, a HRP-conjugated goat anti-rabbit IgG (H+L) was used as the secondary antibody (1/500). Negative control using PBS instead of primary antibody. Counterstained with hematoxylin.



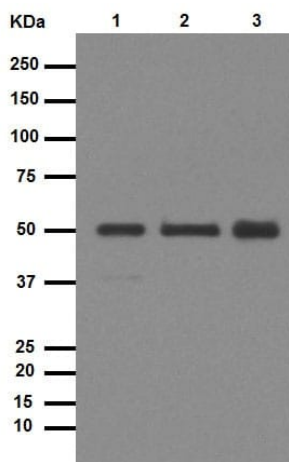
Immunocytochemistry/ Immunofluorescence - Anti-Desmin antibody [Y66] - Cytoskeleton Marker (ab32362)

Immunofluorescence staining of Desmin using ab32362 in ioSkeletal Myocytes - Human iPSC-Derived Skeletal Myocytes (**ab277612**), which were differentiated for 10 days post induction.

The cells were fixed with 100% MeOH (5 min) and then blocked with 1% BSA/10% normal goat serum/0.3M glycine in 0.1% PBS-Tween for 1h. The cells were then incubated overnight at +4°C with ab32362 at 0.02 µg/mL and **ab7291**, Mouse monoclonal [DM1A] to alpha Tubulin, at 1/1000 dilution. Cells were then incubated with **ab150081**, Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 dilution (shown in green) and **ab150120**, Goat Anti-Mouse IgG H&L (Alexa Fluor® 594) preadsorbed at 1/1000 dilution (shown in red). Nuclear DNA was labelled with DAPI (shown in blue).

Image was acquired with a high-content analyser (Operetta CLS, Perkin Elmer) and a maximum intensity projection of confocal sections is shown. Gamma is adjusted to 1.5 in all channels.

The antibody ab32362 gave comparable results using 4% formaldehyde fixation (10 min).



Western blot - Anti-Desmin antibody [Y66] - Cytoskeleton Marker (ab32362)

All lanes : Anti-Desmin antibody [Y66] - Cytoskeleton Marker (ab32362) at 1/500000 dilution (purified)

Lane 1 : Human skeletal muscle tissue lysate

Lane 2 : Human fetal heart tissue lysate

Lane 3 : Human fetal muscle tissue lysate

Lysates/proteins at 20 µg per lane.

Secondary

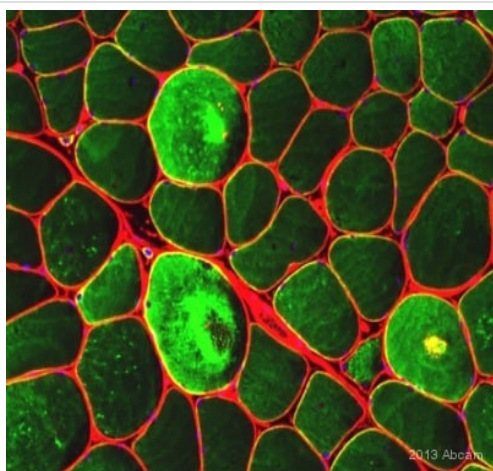
All lanes : HRP-conjugated anti-rabbit IgG, specific to the non-reduced form of IgG at 1/1000 dilution

Predicted band size: 53 kDa

Observed band size: 53 kDa

Blocking buffer and concentration: 5% NFDM/TBST.

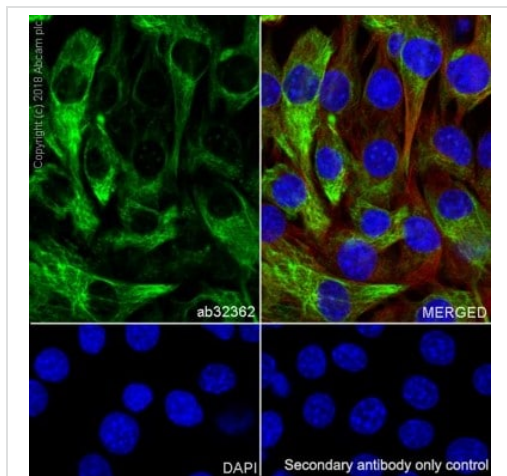
Diluting buffer and concentration: 5% NFDM /TBST.



Immunocytochemistry/ Immunofluorescence - Anti-Desmin antibody [Y66] - Cytoskeleton Marker (ab32362)

This image is courtesy of an anonymous Abreview

Unpurified ab32362 staining Desmin (green) in Human skeletal muscle cells by ICC/IF (Immunocytochemistry/immunofluorescence). Cells were fixed with methacarn and blocked with 10% serum for 20 minutes at 22°C. Samples were incubated with primary antibody (1/150) for 12 hours. An Alexa Fluor® 488-conjugated Goat anti-rabbit IgG polyclonal (1/200) was used as the secondary antibody. Blue - DAPI-nuclei. Red - WGA. 40X objective.

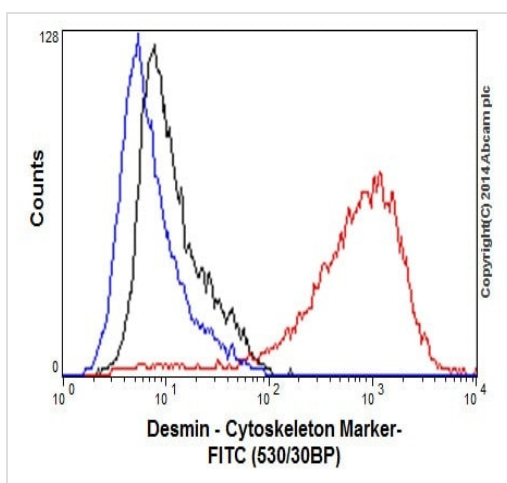


Immunocytochemistry/ Immunofluorescence - Anti-Desmin antibody [Y66] - Cytoskeleton Marker (ab32362)

Immunocytochemistry/Immunofluorescence analysis of C2C12 (Mouse myoblasts myoblast) cells labeling Desmin with ab32362 at 1/500. Cells were fixed with 100% Methanol. [ab150077](#), an Alexa Fluor® 488-conjugated goat anti-rabbit IgG (1/1000) was used as the secondary antibody. DAPI (blue) was used as the nuclear counterstain.

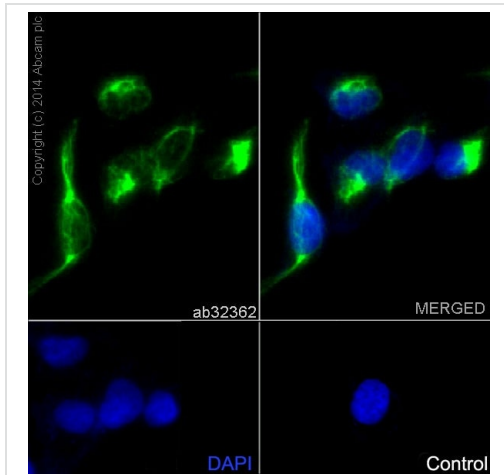
[ab195889](#), Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) 1/200 was used as counterstain antibody.

Confocal image showing cytoplasmic staining on C2C12 cell line.



Flow Cytometry (Intracellular) - Anti-Desmin antibody [Y66] - Cytoskeleton Marker (ab32362)

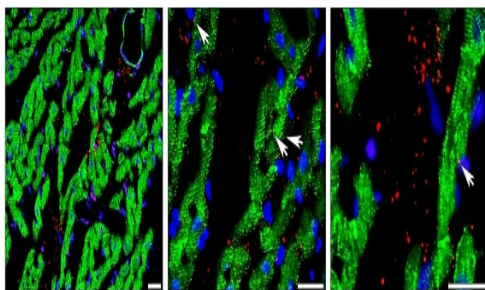
Intracellular Flow Cytometry analysis of C2C12 cells labelling Desmin with purified ab32362 at 1/70 (red). Cells were fixed with 2% paraformaldehyde. A FITC-conjugated goat anti-rabbit IgG (1/150) was used as the secondary antibody. Black - Isotype control, rabbit monoclonal IgG. Blue - Unlabelled control, cells without incubation with primary and secondary antibodies.



Immunocytochemistry/ Immunofluorescence - Anti-Desmin antibody [Y66] - Cytoskeleton Marker (ab32362)

Immunocytochemistry/Immunofluorescence analysis of A673 cells labelling Desmin with purified ab32362 at 1/50. Cells were fixed with 4% paraformaldehyde and permeabilized with 0.1% Triton X-100. **ab150077**, an Alexa Fluor® 488-conjugated goat anti-rabbit IgG (1/500) was used as the secondary antibody. DAPI (blue) was used as the nuclear counterstain.

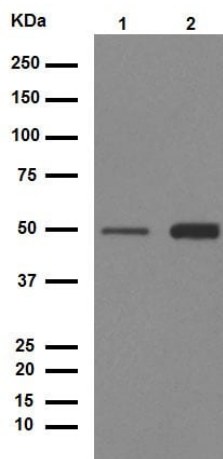
Control: primary antibody (1/50) and secondary antibody, **ab150120**, an Alexa Fluor® 594-conjugated goat anti-mouse IgG (1/500).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Desmin antibody [Y66] - Cytoskeleton Marker (ab32362)

Cowan DB et al. Intracoronary Delivery of Mitochondria to the Ischemic Heart for Cardioprotection. PLoS One 11:e0160889 (2016). Reproduced under the Creative Commons license <http://creativecommons.org/licenses/by/4.0/>

Immunofluorescent analysis of Human mitochondria injected rabbit hearts sections stained for Desmin (Green) using ab32362. MTCO2, the human-specific mitochondrial marker was stained in red, and the nuclei was stained using the DNA stain DAPI (blue).



Western blot - Anti-Desmin antibody [Y66] - Cytoskeleton Marker (ab32362)

All lanes : Anti-Desmin antibody [Y66] - Cytoskeleton Marker (ab32362) at 1/500000 dilution (purified)

Lane 1 : Mouse heart tissue lysate

Lane 2 : Rat heart tissue lysate

Lysates/proteins at 20 µg per lane.

Secondary

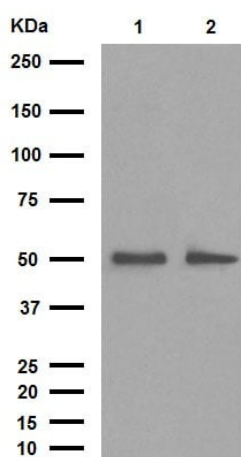
All lanes : HRP-conjugated anti-rabbit IgG, specific to the non-reduced form of IgG at 1/1000 dilution

Predicted band size: 53 kDa

Observed band size: 53 kDa

Blocking buffer and concentration: 5% NFDM/TBST.

Diluting buffer and concentration: 5% NFDM /TBST.



Western blot - Anti-Desmin antibody [Y66] - Cytoskeleton Marker (ab32362)

All lanes : Anti-Desmin antibody [Y66] - Cytoskeleton Marker (ab32362) at 1/100000 dilution

Lane 1 : Guinea pig heart tissue lysate

Lane 2 : Guinea pig muscle tissue lysate

Lysates/proteins at 10 µg per lane.

Secondary

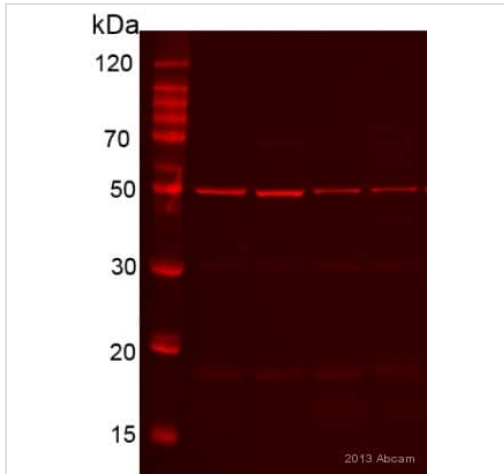
All lanes : Peroxidase-conjugated goat anti-rabbit IgG (H+L) at 1/1000 dilution

Predicted band size: 53 kDa

Observed band size: 53 kDa

Blocking buffer and concentration: 5% NFDM/TBST.

Diluting buffer and concentration: 5% NFDM /TBST.



Western blot - Anti-Desmin antibody [Y66] - Cytoskeleton Marker (ab32362)

This image is courtesy of an anonymous Abreview

All lanes : Anti-Desmin antibody [Y66] - Cytoskeleton Marker (ab32362) at 1/500 dilution (unpurified)

All lanes : Human skeletal muscle whole tissue lysate

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : IRDye® 680-conjugated anti-rabbit at 1/5000 dilution

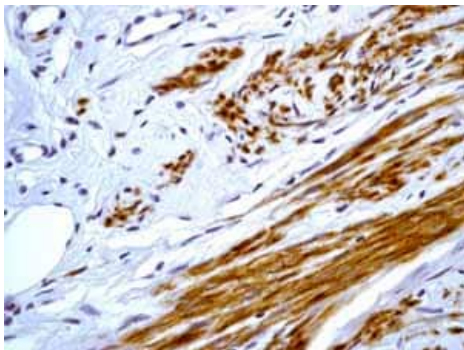
Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 53 kDa

Observed band size: 53 kDa

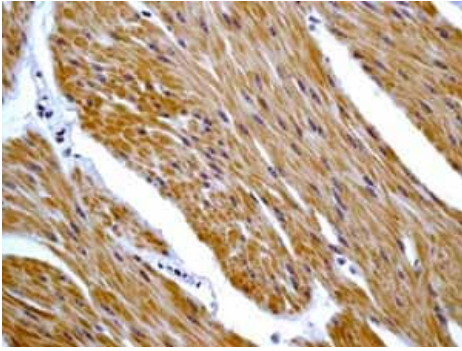
Exposure time: 50 seconds



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Desmin antibody [Y66] - Cytoskeleton Marker (ab32362)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of normal human uterus tissue labelling Desmin with unpurified ab32362.

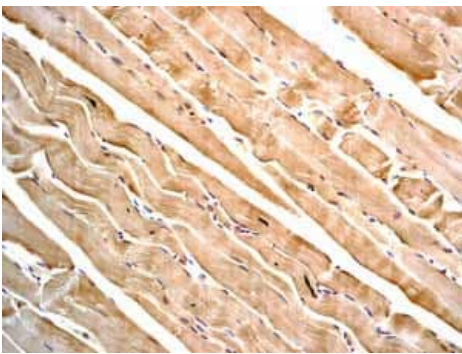
Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Desmin antibody [Y66] - Cytoskeleton Marker (ab32362)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of normal human urinary bladder tissue labelling Desmin with unpurified ab32362.

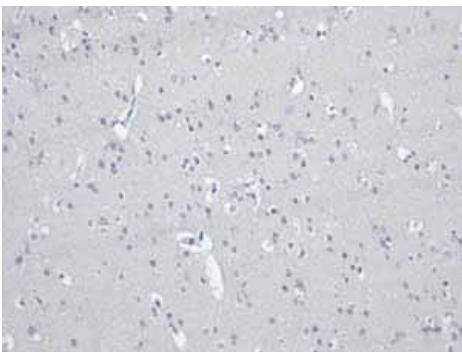
Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Desmin antibody [Y66] - Cytoskeleton Marker (ab32362)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human skeletal muscle tissue labelling Desmin with unpurified ab32362.

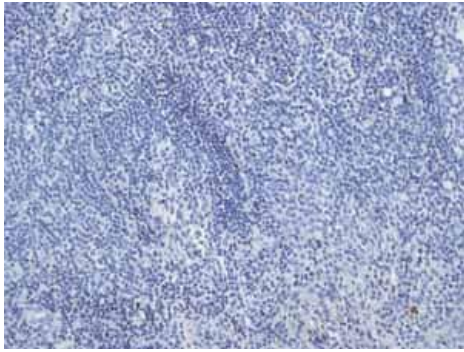
Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Desmin antibody [Y66] - Cytoskeleton Marker (ab32362)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of normal human brain tissue. Unpurified ab32362 shows negative staining.

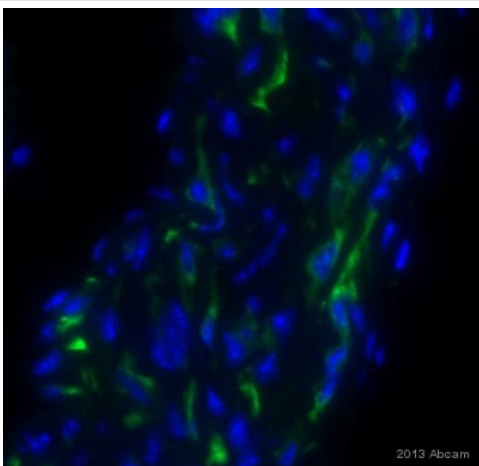
Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Desmin antibody [Y66] - Cytoskeleton Marker (ab32362)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of normal human tonsil tissue. Unpurified ab32362 shows negative staining.

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Immunocytochemistry/ Immunofluorescence - Anti-Desmin antibody [Y66] - Cytoskeleton Marker (ab32362)

This image is courtesy of an anonymous Abreview

Unpurified ab32362 staining Desmin (green) in Mouse aorta smooth muscle cells by ICC/IF

(Immunocytochemistry/immunofluorescence). Cells were fixed with formalin and blocked with 10% serum for 20 minutes at 22°C. Samples were incubated with primary antibody (1/150) for 1 hour at 22°C. An Alexa Fluor[®] 488-conjugated Goat anti-rabbit IgG polyclonal (1/200) was used as the secondary antibody. Blue - nuclei.

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Confirmed specificity



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Anti-Desmin antibody [Y66] - Cytoskeleton Marker
(ab32362)

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