

### Anti-Desmin antibody - Cytoskeleton Marker ab15200

★★★★★ [26 Abreviews](#) [218 References](#) [12 图像](#)

#### 概述

产品名称	Anti-Desmin抗体- Cytoskeleton Marker
描述	兔多克隆抗体to Desmin - Cytoskeleton Marker
宿主	Rabbit
经测试应用	适用于: ICC, IHC-P
种属反应性	与反应: Mouse, Rat, Human
免疫原	Synthetic peptide within Human Desmin aa 400 to the C-terminus (C terminal). The exact sequence is proprietary. Database link: <a href="#">P17661</a>
阳性对照	ICC: ioSkeletal Myocytes - Human iPSC-Derived Skeletal Myocytes ( <a href="#">ab277612</a> ), C2C12, RMS13, and A431 cells. IHC-P: Human skeletal muscle, human and rat cardiac muscle.
常规说明	<p>The negative control used to test this Ab was: skin (squamous epithelial cells) was used as negative control tissue.</p> <p><b>This product is FOR RESEARCH USE ONLY. For commercial use, please contact <a href="mailto:partnerships@abcam.com">partnerships@abcam.com</a>.</b></p> <p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&amp;As</p>

#### 性能

形式	Liquid
存放说明	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
存储溶液	pH: 7.60 Preservative: 0.1% Sodium azide Constituents: PBS, 1% BSA
纯度	Immunogen affinity purified

克隆

多克隆

同种型

IgG

应用

The Abpromise guarantee

Abpromise™承诺保证使用ab15200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
ICC	★★★★☆ (2)	Use a concentration of 0.1 - 1 µg/ml.
IHC-P	★★★★★ (13)	1/200.

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.

疾病相关

Defects in DES are the cause of myopathy myofibrillar desmin-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 grindle 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.

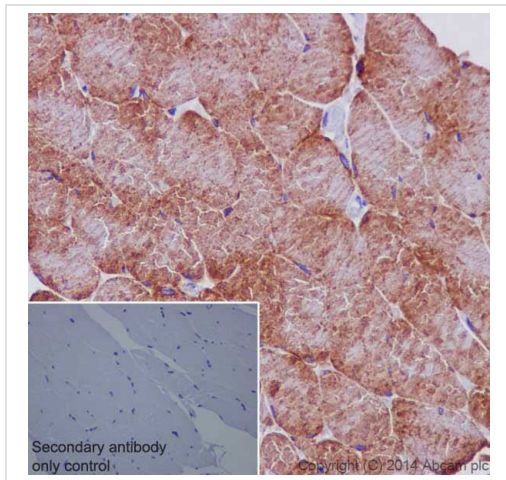
序列相似性

Belongs to the intermediate filament family.

细胞定位

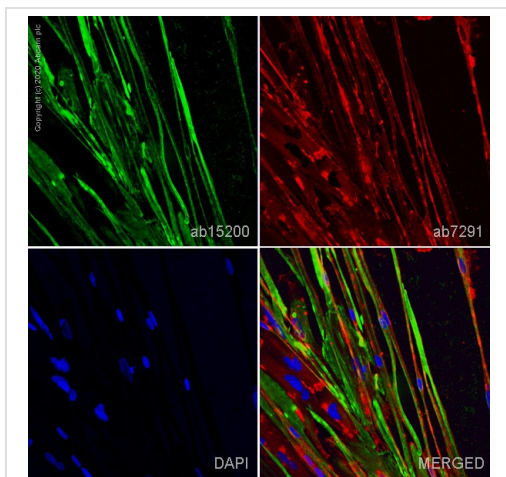
Cytoplasm.

图片



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Desmin antibody - Cytoskeleton Marker (ab15200)

Immunohistochemical analysis of paraffin-embedded on human skeletal muscle labeling Desmin with ab15200 at 1/200 dilution followed by goat anti-rabbit IgG H&L (HRP) ([ab97051](#), 1/500). Counter stained with hematoxylin.



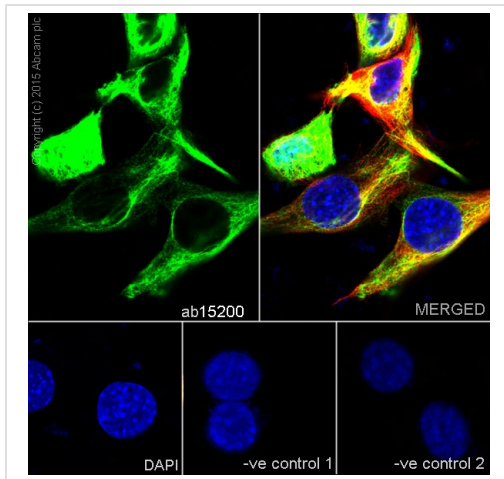
Immunocytochemistry - Anti-Desmin antibody - Cytoskeleton Marker (ab15200)

Immunofluorescence staining of Desmin using ab15200 in ioSkeletal Myocytes - Human iPSC-Derived Skeletal Myocytes ([ab277612](#)), which were differentiated for 10 days post induction.

The cells were fixed with 4% formaldehyde (10 min), permeabilized with 0.1% PBS-Tween for 5 mins 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 ab15200 at 0.1 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 ab15200 gave comparable results using MeOH fixation (100%, 5 min).



Immunocytochemistry - Anti-Desmin antibody -  
Cytoskeleton Marker (ab15200)

Immunocytochemistry/Immunofluorescence analysis of C2C12 (mouse muscle) cells labelling Desmin with ab15200 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. **ab7291**, a mouse anti-tubulin (1/1000) and **ab150120**, an Alexa Fluor® 594-conjugated goat anti-mouse IgG (1/1000) were also used.

Control 1: primary antibody (1/500) and secondary antibody, **ab150120**, an Alexa Fluor® 594-conjugated goat anti-mouse IgG (1/1000).

Control 2: **ab7291** (1/1000) and secondary antibody, **ab150077**, an Alexa Fluor® 488-conjugated goat anti-rabbit IgG (1/1000).

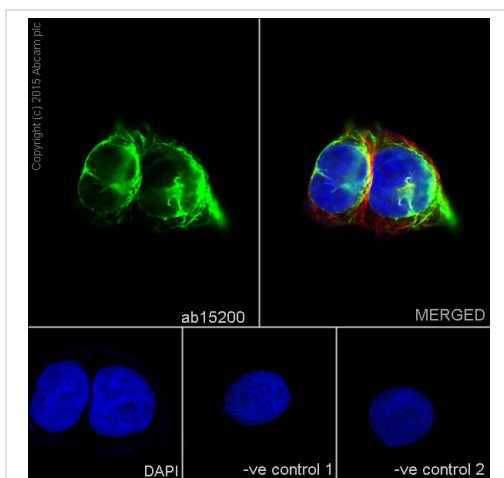


Immunocytochemistry - Anti-Desmin antibody -  
Cytoskeleton Marker (ab15200)

This image is courtesy of an Abreview submitted by Dr Mal Niladri

ab15200 staining rat differentiated skeletal muscle cells by ICC/IF.

Cultured differentiated skeletal muscle cells were harvested from Lewis rats, 2% paraformaldehyde treated for 15 min to fix the cells, and then permeabilized with Triton-X100 (0.1%) for 10 min. The cells were then incubated with ab15200 at 1/200 overnight at 4°C. The image was taken with a confocal laser scanning microscope and shows desmin expressing skeletal myocytes (green-cytoplasmic localization). Note that desmin forms short thickened filamentous structures in the cell cytoplasm, along with prominent spot-like cytoplasmic aggregates that are composed of densely packed filaments.

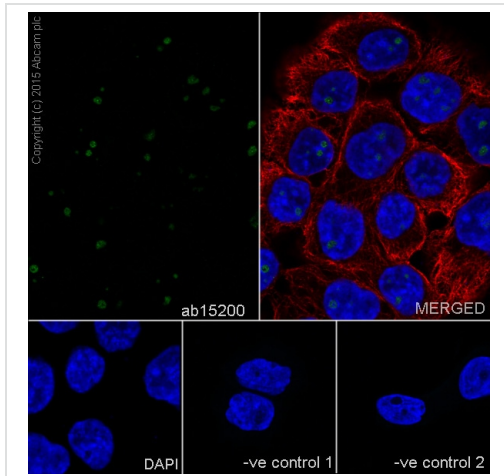


Immunocytochemistry - Anti-Desmin antibody -  
Cytoskeleton Marker (ab15200)

Immunocytochemistry/Immunofluorescence analysis of RMS13 (human rhabdomyosarcoma) cells labelling Desmin with ab15200 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. **ab7291**, a mouse anti-tubulin (1/1000) and **ab150120**, an Alexa Fluor® 594-conjugated goat anti-mouse IgG (1/1000) were also used.

Control 1: primary antibody (1/500) and secondary antibody, **ab150120**, an Alexa Fluor® 594-conjugated goat anti-mouse IgG (1/1000).

Control 2: **ab7291** (1/1000) and secondary antibody, **ab150077**, an Alexa Fluor® 488-conjugated goat anti-rabbit IgG (1/1000).

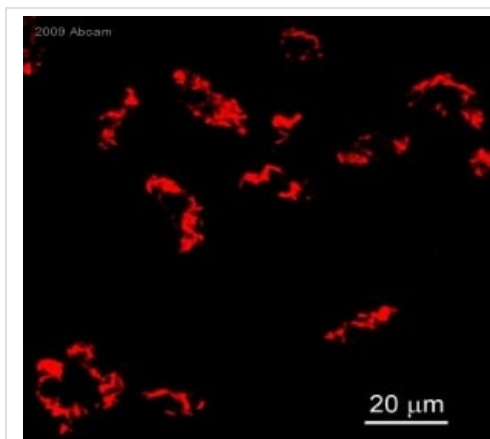


Immunocytochemistry - Anti-Desmin antibody -  
Cytoskeleton Marker (ab15200)

Immunocytochemistry/Immunofluorescence analysis of A431 (human epidermoid carcinoma) cells (negative cell line) showing weak staining of Desmin with ab15200 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. **ab7291**, a mouse anti-tubulin (1/1000) and **ab150120**, an Alexa Fluor® 594-conjugated goat anti-mouse IgG (1/1000) were also used.

Control 1: primary antibody (1/500) and secondary antibody, **ab150120**, an Alexa Fluor® 594-conjugated goat anti-mouse IgG (1/1000).

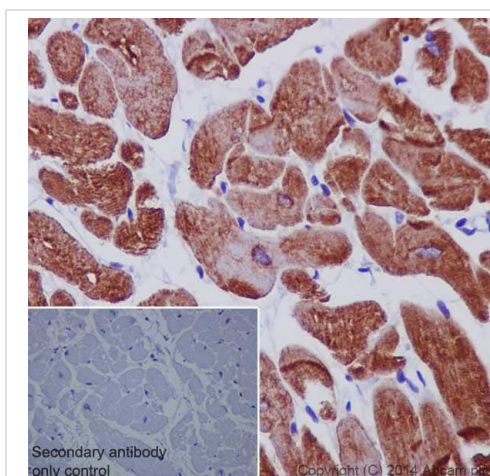
Control 2: **ab7291** (1/1000) and secondary antibody, **ab150077**, an Alexa Fluor® 488-conjugated goat anti-rabbit IgG (1/1000).



Immunocytochemistry - Anti-Desmin antibody -  
Cytoskeleton Marker (ab15200)

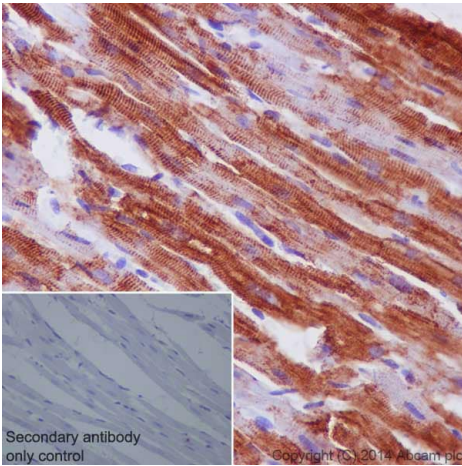
This image is courtesy of an anonymous abreview.

ab15200 staining Desmin in rat Smooth muscle cells from mesenteric artery by Immunocytochemistry/ Immunofluorescence. Cells were fixed with 4% paraformaldehyde in PSS for 4 min at 4°C and permeabilized with 0.3% Triton x100 before blocking with 2% BSA was done for 30 minutes at 20°C. Samples were incubated with primary antibody (1/300 in PSS with 2%BSA and 0.3% Triton X-100) for 14 hours at 4°C. An MFP 555-conjugated donkey polyclonal to rabbit IgG was used as secondary antibody at 1/400 dilution.



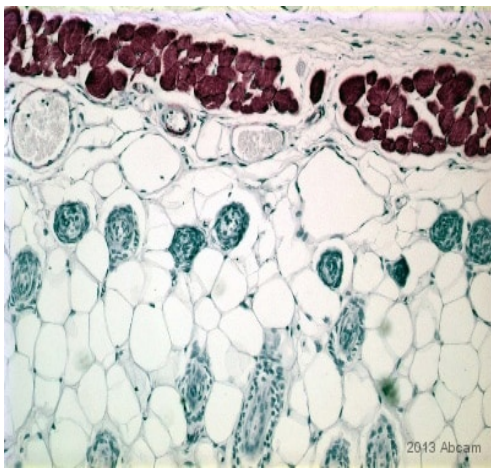
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Desmin antibody -  
Cytoskeleton Marker (ab15200)

Immunohistochemical analysis of paraffin-embedded on human cardiac muscle labeling Desmin with ab15200 at 1/200 dilution followed by goat anti-rabbit IgG H&L (HRP) (**ab97051**, 1/500). Counter stained with hematoxylin.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Desmin antibody - Cytoskeleton Marker (ab15200)

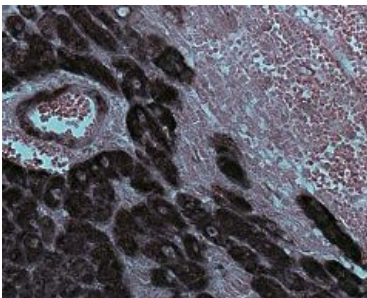
Immunohistochemical analysis of paraffin-embedded on rat cardiac muscle labeling Desmin with ab15200 at 1/200 dilution followed by goat anti-rabbit IgG H&L (HRP) ([ab97051](#), 1/500). Counter stained with hematoxylin.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Desmin antibody - Cytoskeleton Marker (ab15200)

This image is courtesy of an anonymous abreview.

ab15200 staining Desmin in Mouse skin tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with paraformaldehyde and blocked with 5% serum for 1 hour at room temperature; antigen retrieval was enzymatic. Samples were incubated with primary antibody (1/800 in blocking buffer) for 16 hours at 4°C. An undiluted HRP-conjugated Horse anti-rabbit IgG polyclonal was used as the secondary antibody.

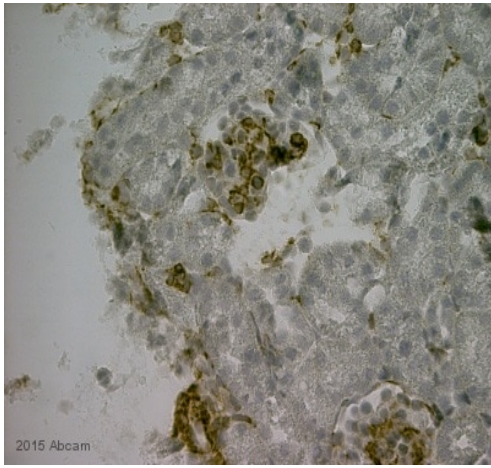


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Desmin antibody - Cytoskeleton Marker (ab15200)

Ab15200 positively staining desmin in formaldehyde fixed mouse heart tissue (1/200). Ab15200 was used in conjunction with goat anti rabbit (biotin).

The reviewer reported no difference in the quality of staining obtained when enzymatic epitope unmasking was preformed.

This image is an edited version of an image submitted courtesy of an Abreview by **Khaled Chatila** on **11 October 2005**. For further information relating to the protocol please refer to the Abreview.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Desmin antibody - Cytoskeleton Marker (ab15200)

This image is courtesy of an anonymous abreview.

Immunohistochemical analysis of PFA-fixed paraffin-embedded murine nephric tissue, labelling Desmin with ab15200 at a dilution of 1/250 incubated for 18 hours at 4°C. Heat mediated antigen retrieval was with citrate buffer. Blocking was with Dako serum-free protein block at 100% incubated for 1 hour at 23°C. Secondary was a donkey anti-rabbit polyclonal HRP conjugate at 1/200.

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