

Product Name: KD-Validated Desmin Recombinant Rabbit Monoclonal Antibody**Catalog #: KVA01429**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC,IHC-P
Reactivity	Human,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000; IHC-P 1:100-1:200
Molecular Weight	Calculated MW: 53.5kDa

Antigen Information

Gene Name	DES DES; Desmin; CSM1; CSM2; Intermediate Filament Protein; Cardiomyopathy, Dilated 1I;
Alternative Names	LGMD2R; CMD1I; Cardiomyopathy, Dilated 1F (Autosomal Dominant); Epididymis Secretory Sperm Binding Protein; LGMD1D; LGMD1E; CDCD3
Gene ID	1674.0
SwissProt ID	P17661
Immunogen	A synthesized peptide derived from human Desmin

Background

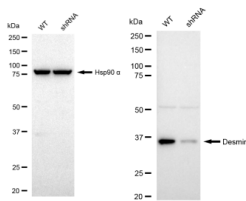
This gene encodes a muscle-specific class III intermediate filament. Homopolymers of this protein form a stable intracytoplasmic filamentous network connecting myofibrils to each other and to the plasma membrane. Mutations in this

gene are associated with desmin-related myopathy, a familial cardiac and skeletal myopathy (CSM), and with distal myopathies. [provided by RefSeq, Jul 2008]

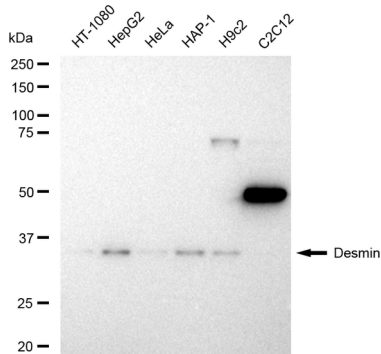
Research Area

Signal Transduction, Stem Cells, Cancer, Cardiovascular

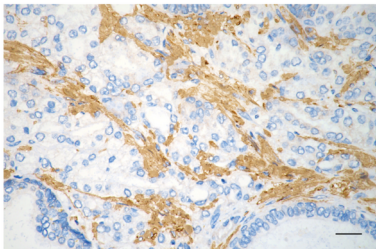
Image Data



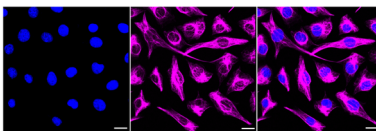
Western blotting analysis using Desmin antibody (KVA01429). Desmin expression in wild type (WT) and Desmin shRNA knockdown (KD) HT-1080 cells with 30 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with Desmin antibody (KVA01429, 1:20,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



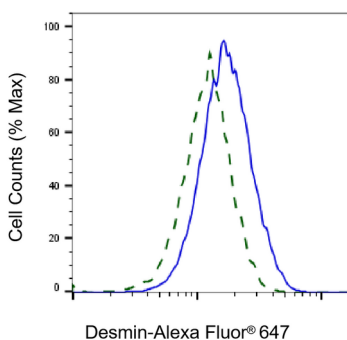
Western blotting analysis using Desmin antibody (KVA01429). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with Desmin antibody (KVA01429, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



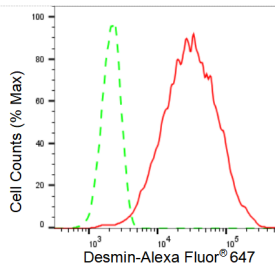
Immunohistochemistry was performed on paraffin-embedded human prostatic adenocarcinoma using desmin antibody (KVA01429, 1:200). Antigen retrieval was done in sodium citrate buffer (pH 6.0). DAB was used for detection, with hematoxylin counterstaining. Images were acquired using a Nikon Ci-L Plus microscope (40× objective). Scale bar: 25 µm.



Immunocytochemical staining of C2C12 cells with Desmin antibody (KVA01429, 1:1,000). Nuclei were stained blue with DAPI; Desmin was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: High. Scale bar: 20 µm.



Validation of Desmin knockdown using flow cytometry. Wild-type (WT, Blue) and knockdown (KD, Green) HeLa cells were stained with Desmin antibody (KVA01429, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of Desmin expression in C2C12 cells using Desmin antibody (KVA01429, 1:2,000). Green, isotype control; red, Desmin.