



Rabbit Anti-Desmin antibody

SL20702R

Product Name:	Desmin
Chinese Name:	结蛋白抗体
Alias:	CMD1I; CSM1; CSM2; DES; FLJ12025; FLJ39719; FLJ41013; FLJ41793; Intermediate filament protein; OTTHUMP00000064865; DESM_HUMAN; Desmin; FLJ12025; FLJ39719; FLJ41013; FLJ41793.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Cow,Horse,Rabbit,Sheep,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	52kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human Desmin:311-400/470
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	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. Defects in Desmin are the cause of desmin related cardio skeletal myopathy (CSM) also known as desmin related myopathy (DRM). CSM is characterized by skeletal muscle weakness associated with cardiac conduction blocks, arrhythmias,

restrictive heart failure, and by intracytoplasmic accumulation of desmin reactive deposits in cardiac and skeletal muscle cells. A desmin related myopathy can have a distal onset, it is then known as hereditary distal myopathy (HDM). Defects in Desmin are also the cause of dilated cardiomyopathy type II (CMD1I). CMD1I is an autosomal form of dilated cardiomyopathy characterized by ventricular dilatation and impaired systolic function. Antidesmin antibodies are useful in identification of tumours of myogenic origin.

Function:

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.

Subunit:

Homopolymer. Interacts with DST. Interacts with MTM1.

Subcellular Location:

Cytoplasm.

Post-translational modifications:

ADP-ribosylation prevents ability to form intermediate filaments.

DISEASE:

Defects in DES are the cause of myopathy myofibrillar type 1 (MFM1) [MIM:601419]. 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. Note=Mutations in the DES gene are associated with a variable clinical phenotype which encompasses isolated myopathies, pure cardiac phenotypes (including dilated cardiomyopathy, restrictive cardiomyopathy and arrhythmogenic right ventricular cardiomyopathy), cardiac conduction disease, and combinations of these disorders. If both cardiologic and neurologic features occur, they can manifest in any order, as cardiologic features can precede, occur simultaneously with, or follow manifestation of generalized neuromuscular disease (PubMed:19879535).

Defects in DES are the cause of cardiomyopathy dilated type II (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.

Similarity:

Belongs to the intermediate filament family.

SWISS:

P17661

Gene ID:

1674

Database links:

[Entrez Gene: 1674](#)Human

[Entrez Gene: 13346](#)Mouse

[Entrez Gene: 64362](#)Rat

[Omir: 125660](#)Human

[SwissProt: P17661](#)Human

[SwissProt: P31001](#)Mouse

[SwissProt: P48675](#)Rat

[Unigene: 594952](#)Human

[Unigene: 6712](#)Mouse

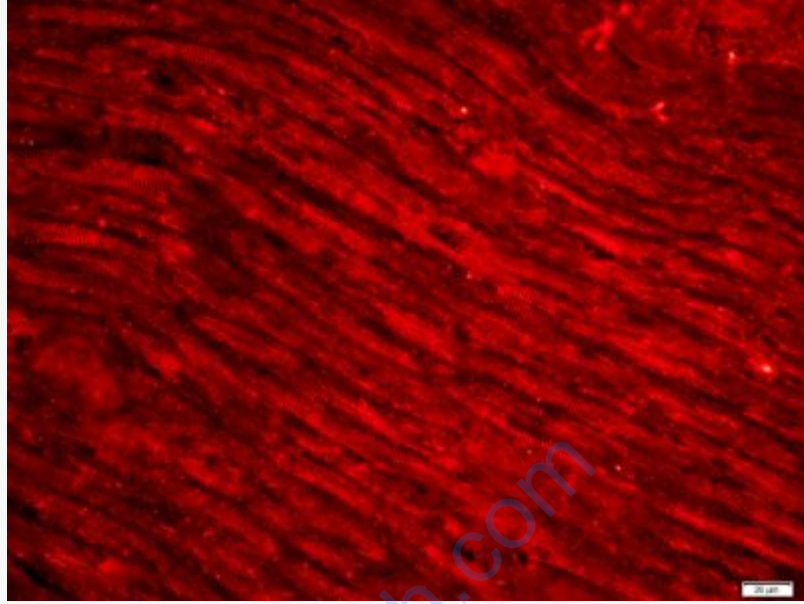
[Unigene: 39196](#)Rat

Important Note:

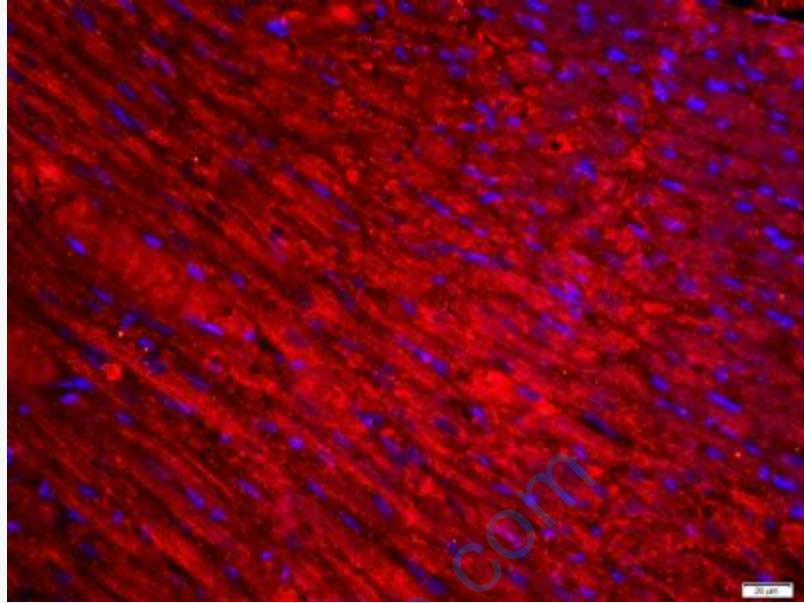
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Desmin在很多哺乳动物中的横纹肌和各种平滑肌及其来源的Tumour组织中都有表达。结蛋白是一种中间丝蛋白,广泛分布于骨骼肌细胞、平滑肌细胞、心肌细胞和肌epithelial cells及其Tumour中,主要用于子宫、皮肤、胃肠道及其它横纹肌肉瘤和肌上皮瘤的诊断和鉴别诊断。

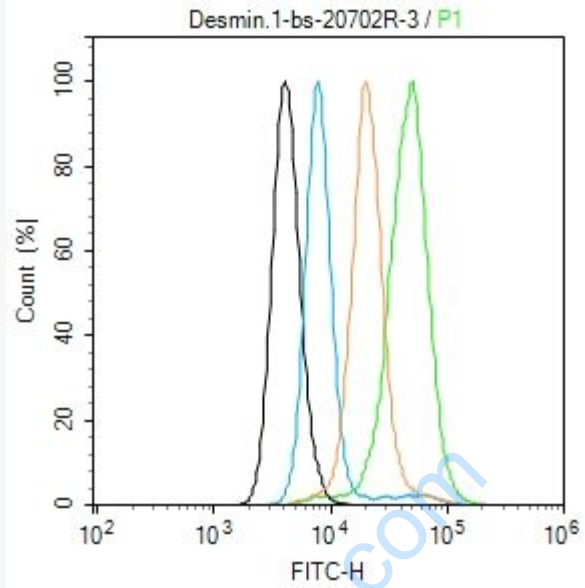
Picture:



Paraformaldehyde-fixed, paraffin embedded (Rat heart); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Desmin; DES) Polyclonal Antibody, Unconjugated (SL20702R) at 1:400 overnight at 4°C, followed by a conjugated secondary antibody (SL20702R) for 90 minutes.



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Blank control (black line): A431(black) (The cells were fixed with 2% paraformaldehyde (10 min) , then permeabilized with PBST for 30 min on room temperature)

Primary Antibody (green line): Rabbit Anti-Desmin antibody (SL20702R) ;

Dilution: $1\mu\text{g} / 10^6$ cells;

Isotype Control Antibody (orange line): Rabbit IgG .

Secondary Antibody (white blue line): Goat anti-rabbit IgG-FITC;Dilution: $1\mu\text{g} / \text{test}$.