



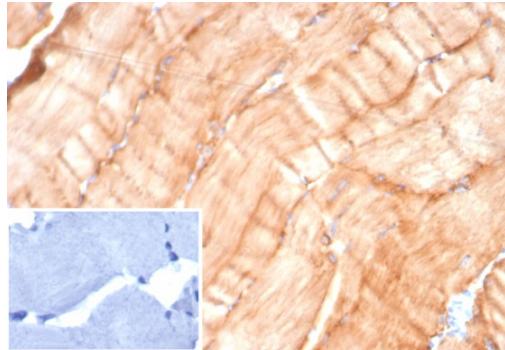
## Desmin (Muscle Cell Marker)

Mouse Monoclonal Antibody [Clone DES/4526]

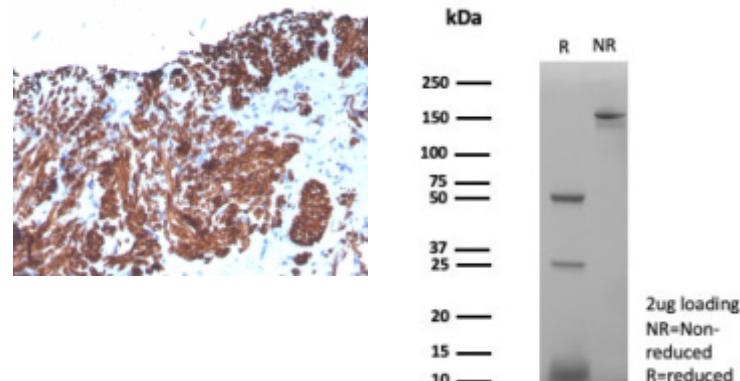
Catalog No	Format	Size	Price (USD)
1674-MSM6-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug	219.00
1674-MSM6-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug	499.00
1674-MSM6-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug	499.00

Human Entrez Gene ID	1674
Human SwissProt	P17661
Human Unigene	594952
Human Gene Symbol	DES
Human Chromosome Location	2q35
Synonyms	CMD1I; CSM1; CSM2; DES; Intermediate filament protein

Immunogen	Recombinant full-length human desmin protein
Host / Ig Isotype	Mouse / IgG1, kappa
Mol. Weight of Antigen	52kDa
Cellular Localization	Cytoplasm.
Species Reactivity	Human.
Positive Control	SJRH30 cells. Human uterus, small intestine or leiomyosarcoma.



Formalin-fixed, paraffin-embedded human skeletal muscle stained with Desmin Mouse Monoclonal Antibody (DES/4526) at 2ug/ml. Inset: PBS instead of primary antibody; secondary only negative control.



### Specificity & Comments

Cytoskeletal intermediate filaments (IFs) constitute a diverse group of proteins that are expressed in a highly tissue-specific manner. IFs are constructed from two-chain  $\pm$ -helical coiled-coil molecules arranged on an imperfect helical lattice, and have been widely used as markers for distinguishing individual cell types within a tissue and identifying the origins of metastatic tumors. Vimentin is an IF general marker of cells originating in the mesenchyme. Vimentin and Desmin, a related class III IF, are both expressed during skeletal muscle development. Desmin, a 469 amino acid protein found near the Z line in sarcomeres, is expressed more frequently in adult differentiated state tissues. Anti-desmin detects cells of normal smooth, skeletal, and cardiac muscles. Antibody reacts with leiomyomas, leiomyosarcoma, rhabdomyomas, rhabdomyosarcoma, and perivascular cells of glomus tumors of the skin.

### Known Applications & Suggested Dilutions

Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 30 minutes at RT)  
(Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes)  
Optimal dilution for a specific application should be determined.

### Supplied As

200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

### Storage and Stability

Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

### Limitations

This antibody is available for research use only and is not approved for use in diagnosis.

### Warranty

There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.

### Key References

1. Li, Z.L., et al. 1989. Gene 78: 243-254.