Desmin (Muscle Cell Marker) Antibody

Mouse Monoclonal Antibody [Clone DES/3255]

Catalog No	Format	Size
1674-MSM5-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
1674-MSM5-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
1674-MSM5-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

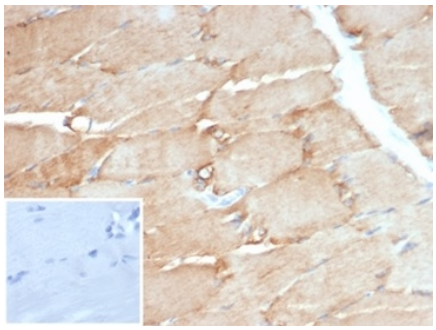
Applications	Tested Dillution	Note
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes

Product Details

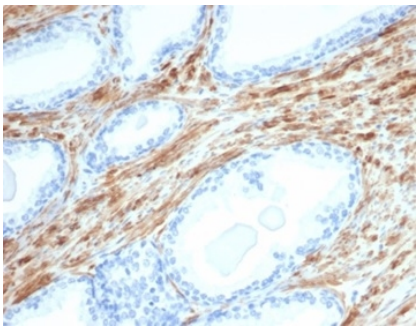
Clone	DES/3255
Gene Name	DES
Immunogen	Recombinant full-length human desmin protein
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG2b / Kappa
Mol. Weight of Antigen	52kDa
Cellular Localization	Cell membrane, Cytoplasm, Myofibril, Nucleus, Sarcolemma, Sarcomere, Z line
Species Reactivity	Cat, Cow, Dog, Horse, Human
Positive Control	SJRH30 cells. Human uterus, small intestine or leiomyosarcoma.

**Optimal dilution for a specific application should be determined.*

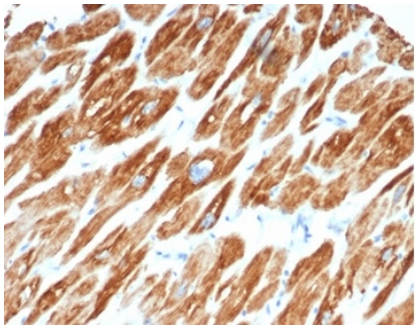
Product Images for Desmin (Muscle Cell Marker) Antibody



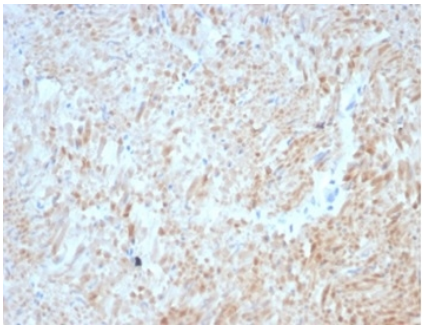
Formalin-fixed, paraffin-embedded human skeletal muscle stained with Desmin Mouse Monoclonal Antibody (DES/3255) at 2ug/ml. Inset: PBS instead of primary antibody; secondary only negative control.



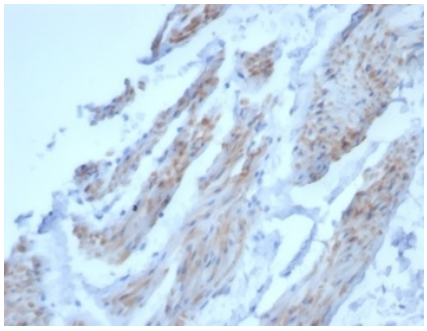
Formalin-fixed, paraffin-embedded human prostate stained with Desmin Mouse Monoclonal Antibody (DES/3255) at 2ug/ml. HIER: Tris/EDTA, pH9.0, 45min. 2 °: HRP-polymer, 30min. DAB, 5min.



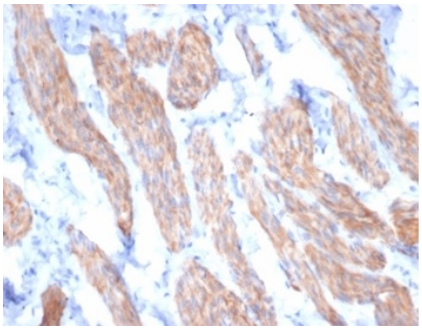
Formalin-fixed, paraffin-embedded human cardiac muscle stained with Desmin Mouse Monoclonal Antibody (DES/3255) at 2ug/ml. HIER: Tris/EDTA, pH9.0, 45min. 2 °: HRP-polymer, 30min. DAB, 5min.



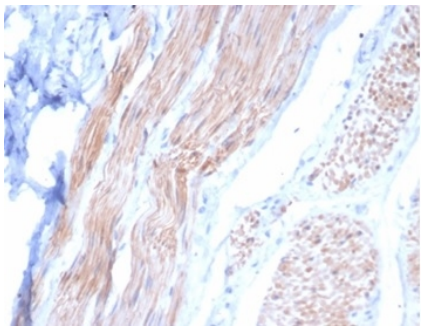
Formalin-fixed, paraffin-embedded cat smooth muscle stained with Desmin Mouse Monoclonal Antibody (DES/3255) at 2ug/ml. HIER: Tris/EDTA, pH9.0, 45min. 2 °: HRP-polymer, 30min. DAB, 5min.



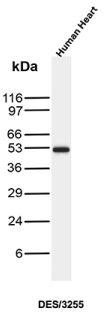
Formalin-fixed, paraffin-embedded dog smooth muscle stained with Desmin Mouse Monoclonal Antibody (DES/3255) at 2ug/ml. HIER: Tris/EDTA, pH9.0, 45min. 2 °: HRP-polymer, 30min. DAB, 5min.



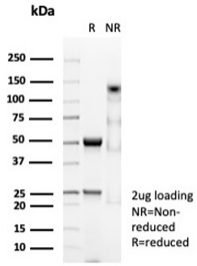
Formalin-fixed, paraffin-embedded horse smooth muscle stained with Desmin Mouse Monoclonal Antibody (DES/3255) at 2ug/ml. HIER: Tris/EDTA, pH9.0, 45min. 2 °: HRP-polymer, 30min. DAB, 5min.



Formalin-fixed, paraffin-embedded cow small intestine stained with Desmin Mouse Monoclonal Antibody (DES/3255) at 2ug/ml. HIER: Tris/EDTA, pH9.0, 45min. 2 °: HRP-polymer, 30min. DAB, 5min.



Western blot analysis of human heart tissue lysates using DES Mouse Monoclonal Antibody (DES/3255).



SDS-PAGE Analysis Purified Desmin Mouse Monoclonal Antibody (DES/3255). Confirmation of Purity and Integrity of Antibody.

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 ?-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.

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.

Research Areas

Cardiovascular, Mesenchymal Stem Cell Differentiation

Limitations and Warranty

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