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# Desmin
# Mouse Monoclonal Antibody
# Product Datasheet

**Catalog#** BX50139
**Clone#** D33

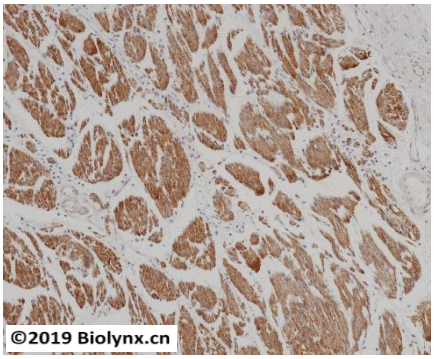
**Predicted Molecular Wt:** 53kDa
**Species Cross-reactivity:** Human
**Applications:** IHC-P
**Purity:** ProG affinity purified IgG
**Form:** Liquid
**Swissprot ID:** P17661

**Background:**
Desmin is a 53kDa intermediate filament (IF) protein that integrates the sarcolemma, Z disk, and nuclear membrane in sarcomeres and regulates sarcomere architecture. Desmin play no role in contractility but serves to maintain the orientation of actin and myosin filaments and may also play a role in nuclear transcription.

Desmin is expressed in all striated muscle cells and most smooth muscle cells. In the developing striated muscle cells it replaces vimentin, linked to the Z-disc. In the smooth muscle cells desmin is associated with cytoplasmic dense bodies and subplasmalemmal dense plaques. In myofibroblasts and vascular smooth muscle cells desmin is co-expressed with vimentin. However, in the arterial smooth muscle cells, desmin may be scarce or absent, while vimentin expression is retained. Mesothelial cells may express desmin, particularly in effusions and cultures. In tumor tissues, it detected in leiomyomas, leiomyosarcoma, rhabdomyomas, rhabdomyosarcoma, and perivascular cells of glomus tumors of the skin.

Desmin is used in a panel for identification of leiomyosarcoma, rhabdomyosarcoma and other tumours with myoid differentiation, and for classification of mesenchymal, pleomorphic, spindle cell and round cell neoplasms.

**Subcellular location:**
Cytoplasm
**Recommended method:**
Heat induced epitope retrieval with Tris-EDTA buffer (pH 9.0), primary antibody incubate at RT (18°C-25°C) for 30 minutes.
**Immunogen:**
Immunogen derived from human Leiomyoma




Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of esophagus tissue labelling Desmin with D33. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9.0

**Storage Buffer:**
PBS 59%, Sodium azide 0.01%, Glycerol 40%, BSA 0.05%.
**Storage conditions:**
-20°C
**Storage instructions:**
Shipped on blue ice. Upon delivery, aliquot, and store at -20°C. Avoid freeze / thaw cycles.
**Recommended Dilutions:**
IHC-P: 1:100-1:200
**Background References:**

1. Brodehl A., et al. Circ Cardiovasc Genet. 2013 Dec;6(6):615-23.
2. Colella R., et al. Am J Surg Pathol. 2010 Jan;34(1):10-7.

**Product QC'd by:**

**For research use only. Not for use in diagnostic or therapeutic applications.**