

## 36-2163: Anti-Desmin (Muscle Cell Marker) Monoclonal Antibody(Clone: D33)

<b>Clonality :</b>	Monoclonal
<b>Clone Name :</b>	D33
<b>Application :</b>	IHC
<b>Reactivity :</b>	Human, Rat
<b>Gene :</b>	DES
<b>Gene ID :</b>	1674
<b>Uniprot ID :</b>	P17661
<b>Alternative Name :</b>	CMD1I; CSM1; CSM2; DES; Intermediate filament protein
<b>Isotype :</b>	Mouse IgG1, kappa
<b>Immunogen Information :</b>	proteins from human Leiomyoma

### Description

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.

### Product Info

<b>Amount :</b>	20 µg / 100 µg
<b>Content :</b>	200 µg/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.
<b>Storage condition :</b>	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.

### Application Note

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);



Fig. 1: Formalin-fixed, paraffin-embedded human Leiomyosarcoma stained with Desmin Mouse Monoclonal Antibody (D33).