

Product Datasheet

Desmin (4H1) Mouse mAb

Catalog No: AB3643

Reactivity: Human, Mouse, Rat

Isotype: Mouse IgG1

Applications: IHC



www.abways.com

Information

UniProt ID: P17661

All Names: DES; Desmin

Form: Liquid

Storage instructions: Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

Storage buffer: pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.

Purity: Affinity-chromatography

Immunogen: A synthesized peptide

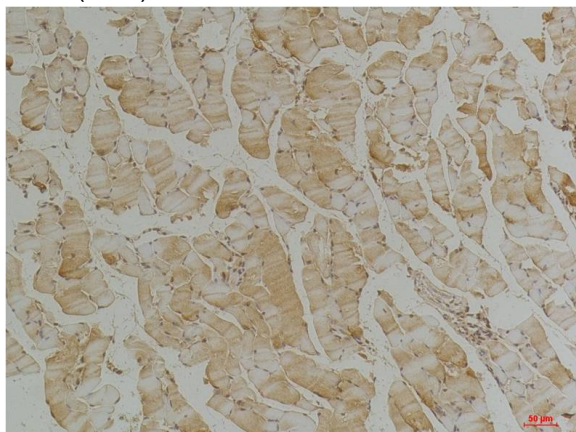
Molecular Wt.: 53kDa

Application

IHC: 1/50-1/100

Background

Swiss-Prot Acc.P17661. Muscle-specific type III intermediate filament essential for proper muscular structure and function. Plays a crucial role in maintaining the structure of sarcomeres, inter-connecting the Z-disks and forming the myofibrils, linking them not only to the sarcolemmal cytoskeleton, but also to the nucleus and mitochondria, thus providing strength for the muscle fiber during activity (PubMed:25358400). 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 (PubMed:24200904, PubMed:25394388, PubMed:26724190). May act as a sarcomeric microtubule-anchoring protein: specifically associates with detyrosinated tubulin- α chains, leading to buckled microtubules and mechanical resistance to contraction. Contributes to the transcriptional regulation of the NKX2-5 gene in cardiac progenitor cells during a short period of cardiomyogenesis and in cardiac side population stem cells in the adult. Plays a role in maintaining an optimal conformation of nebulin (NEB) on heart muscle sarcomeres to bind and recruit cardiac α -actin.



Immunohistochemistry analysis of paraffinembedded Mouse Skeletal Muscle Tissue using Desmin (4H1) antibody.

For Research Use Only. Not For Use In Diagnostic Procedures.

www.abways.com