

Mouse Desmin Monoclonal Antibody | anti-DES antibody

Desmin Monoclonal Antibody (1B12)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA28897	Mouse	Human, Mouse, Rat	Immunohistochemistry, Immunofluorescence

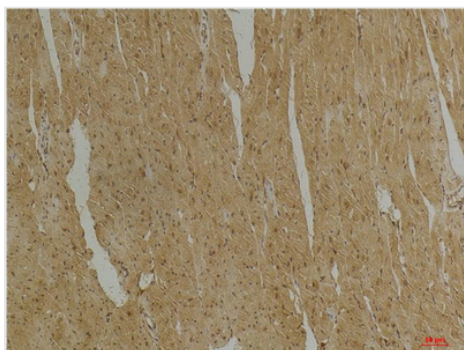
PRODUCT SYNONYMS

Desmin; Monoclonal Antibody; Desmin Monoclonal Antibody (1B12); DES; anti-DES antibody

PRODUCT SPECIFICATIONS

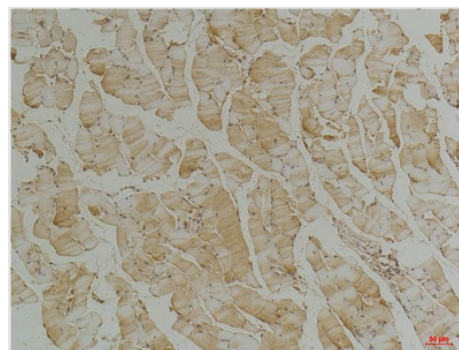
Host	Mouse
Reactivity	Human, Mouse, Rat
Clonality	Monoclonal
Clone Number	1B12
Applicable Applications for anti-DES antibody	IHC (Immunohistochemistry), IF (Immunofluorescence)
Cellular Location	Cytoplasm, myofibril, sarcomere, Z line. Cytoplasm. Cell membrane, sarcolemma. Nucleus Note=Localizes in the intercalated disks which occur at the Z line of cardiomyocytes (PubMed:24200904, PubMed:26724190). Localizes in the nucleus exclusively in differentiating cardiac progenitor cells and premature cardiomyocytes (By similarity)
Tissue Location	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-alpha 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 alpha-actin.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 2 weeks. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.

IMAGES



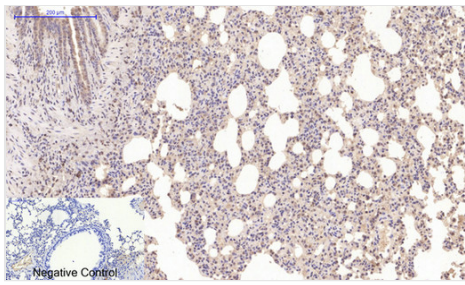
Application Data

Dilution: IF: 1:50-200 IHC 1:100-200



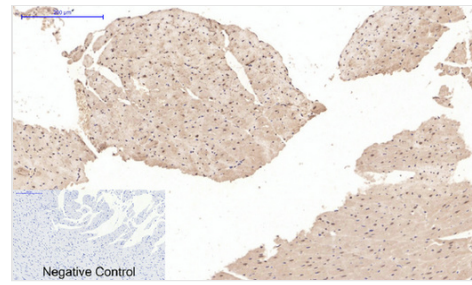
Application Data

Dilution: IF: 1:50-200 IHC 1:100-200



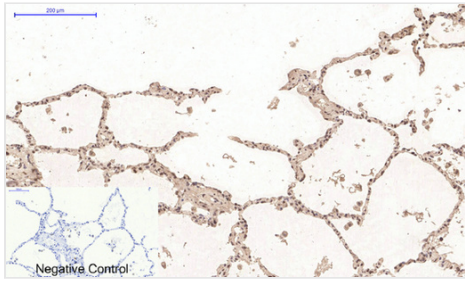
IHC (Immunohistochemistry-Paraffin)

Dilution: IF: 1:50-200 IHC 1:100-200



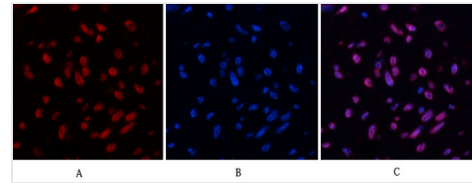
IHC (Immunohistochemistry-Paraffin)

Dilution: IF: 1:50-200 IHC 1:100-200



IHC (Immunohistochemistry-Paraffin)

Dilution: IF: 1:50-200 IHC 1:100-200



IF (Immunofluorescence)

Dilution: IF: 1:50-200 IHC 1:100-200

ADDITIONAL INFORMATION

Related Product Information for anti-DES antibody

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:25394388, PubMed:26724190). May act as a sarcomeric microtubule-anchoring protein: specifically associates with detyrosinated tubulin-alpha 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 nebullette (NEB) on heart muscle sarcomeres to bind and recruit cardiac alpha-actin (By similarity).

NCBI AND UNIPROT INFORMATION

NCBI GI #	55749932
NCBI GeneID	1674
NCBI Accession #	NP_001918.3
NCBI GenBank Nucleotide #	NM_001927.3
UniProt Accession #	P17661; Q15787; Q549R7; Q549R8; Q549R9; Q8IZR1; Q8IZR6; Q8NES2; Q8NEU6; Q8TAC4; Q8TCX2; Q8TD99
Molecular Weight	53,536 Da
NCBI Official Full Name	desmin
NCBI Official Synonym Full Names	desmin
NCBI Official Symbol	DES
NCBI Official Synonym Symbols	CSM1; CSM2
NCBI Protein Information	desmin; intermediate filament protein
UniProt Protein Name	Desmin
UniProt Gene Name	DES

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/desmin-antibody-clone-1b12-immunohistochemistry-immunofluorescence-elisa/28897>