

Rabbit Desmin Polyclonal Antibody | anti-DES antibody

Desmin Antibody

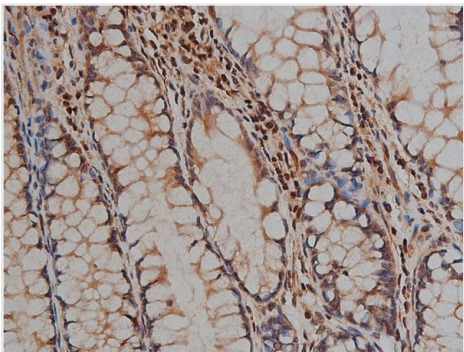
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA321986	Rabbit	Human, Mouse, Rat	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

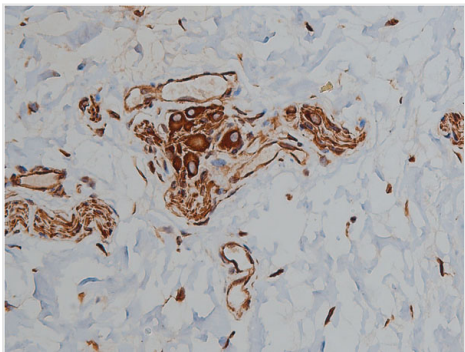
Desmin; Polyclonal Antibody; Desmin Antibody; CMD1I; CSM1; CSM2; DES; DESM_HUMAN; FLJ12025; FLJ39719; FLJ41013; FLJ41793; Intermediate filament protein; OTTHUMP0000064865; anti-DES antibody

PRODUCT SPECIFICATIONS

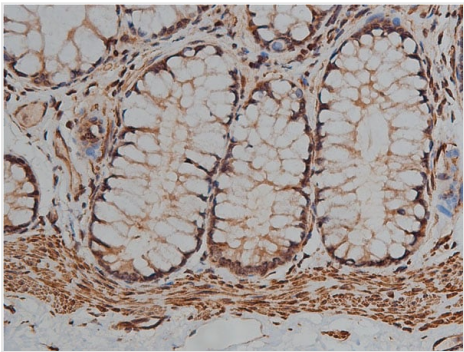
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	Desmin antibody detects endogenous levels of total Desmin
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	470
Applicable Applications for anti-DES antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human Desmin
Subcellular Location	Cytoplasm.
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Rabbit, Dog, Chicken, Xenopus
Similarity	Pig (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (100%), Xenopus (92%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



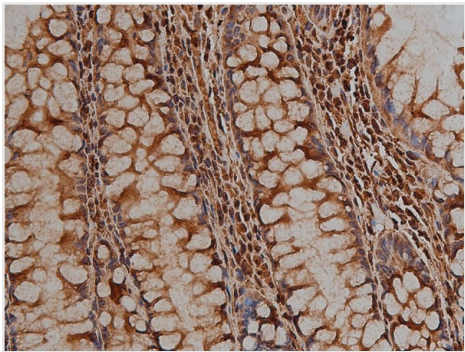
IHC (Immunohistochemistry)
AAA321986 at 1/200 staining human colon tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



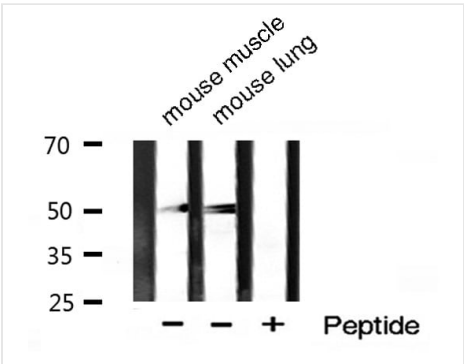
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WB (Western Blot)
Western blot analysis of Desmin expression in various sample.

ADDITIONAL INFORMATION

Related Product Information for anti-DES antibody	Description: Desmin are class-III intermediate filaments found in muscle cells. 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. Function: 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 (By similarity). Subunit Structure: Homopolymer (PubMed:21135508). Interacts with DST (By similarity). Interacts with MTM1 (PubMed:21135508). Interacts with EPPK1; interaction is dependent of higher-order structure of intermediate filament (PubMed:16923132). Interacts with CRYAB (PubMed:28470624). Interacts with NEB (via nebulin repeats 160-164) (PubMed:23615443). Interacts (via rod region) with NEBL (via nebulin repeats 1-5) (PubMed:27733623). Post-translational Modifications: ADP-ribosylation prevents ability to form intermediate filaments. Phosphorylation at Ser-7, Ser-28 and Ser-32 by CDK1, phosphorylation at Ser-60 by AURKB and phosphorylation at Thr-76 by ROCK1 contribute to efficient separation of desmin intermediate filaments during mitosis. Similarity: Belongs to the intermediate filament family.
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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	Observed: 52 kDa Predicted: 54 kDa
NCBI Official Full Name	desmin
NCBI Official Synonym Full Names	desmin
NCBI Official Symbol	DES
NCBI Official Synonym Symbols	CSM1; CSM2; CDCD3; CMD1F; LGMD1D; LGMD1E; LGMD2R
NCBI Protein Information	desmin
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.