

Rabbit Desmin K5 Polyclonal Antibody | anti-DES antibody

Rabbit anti Desmin K5

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA77635	Rabbit	Bovine, Chicken, Caprine, Hamster, Human, Mouse, Rat, Zebrafish	Western Blot, Immunohistochemistry, Immunohistochemistry

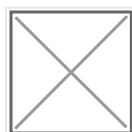
PRODUCT SYNONYMS

Desmin K5; Polyclonal Antibody; Rabbit anti Desmin K5; anti-DES antibody

PRODUCT SPECIFICATIONS

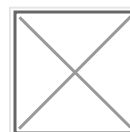
Host	Rabbit
Reactivity	Bovine, Chicken, Caprine, Hamster, Human, Mouse, Rat, Zebrafish
Clonality	Polyclonal
Specificity	K5 reacts exclusively with desmin, which is expressed in smooth and striated muscle cells and their tumors.
Form/Format	Each vial contains 250 ul Rabbit polyclonal antiSerum containing 0.09% sodium azide.
Applicable Applications for anti-DES antibody	WB (Western Blot), IHC (Immunohistochemistry), IHC (Immunohistochemistry)
Source Note	K5 is a Rabbit Serum directed anti Chicken gizzard muscle desmin. Desmin was purified from a crude tissue preparation by preparative gel electrophoresis as described in reference 1.
Preparation and Storage	The antibody is shipped at ambient temperature and may be stored at +4°C. For prolonged storage prepare appropriate aliquots and store at or below -20°C. Prior to use, an aliquot is thawed slowly in the dark at ambient temperature, spun down again and used to prepare working dilutions by adding sterile phosphate buffered saline (PBS, pH 7.2). Repeated thawing and freezing should be avoided. Working dilutions should be stored at +4°C, not refrozen, and preferably used the same day. If a slight precipitation occurs upon storage, this should be removed by centrifugation. It will not affect the performance or the concentration of the product.

IMAGES



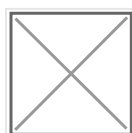
IHC (Immunohistochemistry)

Muscle cell immunostaining in frozen section of chicken gizzard for desmin using AAA77635 (K5; diluted 1:200).



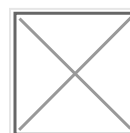
IHC (Immunohistochemistry)

Muscle cell immunostaining in frozen section of chicken gizzard for desmin using AAA77635 (K5; diluted 1:200)



IHC (Immunohistochemistry)

Muscle cell immunostaining in frozen section of swine colon for desmin using AAA77635 (K5; diluted 1:100).



Application Data

Immunofluorescence staining of a 9 days old zebrafish embryo

ADDITIONAL INFORMATION

Related Product Information for anti-DES antibody	Desmin is a 53 kDa intermediate filament protein and exhibits a high degree of tissue specificity, its expression being predominantly confined to all types of muscle cells (cardiac, skeletal and smooth muscle). Regulation of desmin expression is stage and tissue-specific, since it is induced during terminal development and muscle cell differentiation. In skeletal en cardiac muscle cells desmin is localized in the Z-disk region and at the intercalated disk. The expression pattern of desmin in smooth muscle is much more heterogenous. Coexpression of desmin and vimentin has been observed in tumors derived from muscle tissue, i.e. rhabdomyosarcomas and leiomyosarcomas. Furthermore, during myocard dysfunction dramatic changes in the distribution of desmin have been observed.
Product Categories/Family for anti-DES antibody	Cytoskeletal
References	Ramaekers FC, Puts JJ, Moesker O, Kant A, Huysmans A, Haag D, Jap PH, Herman CJ, Vooijs GP (1983). Antibodies to intermediate filament proteins in the immunohistochemical identification of Human tumours: an overview. Histochem J, 15, 691-713 Quax W, Van den Broek L, Egberts WV, Ramaekers F, Bloemendal H (1985). Characterization of the Hamster desmin gene: expression and formation of desmin filaments in nonmuscle cells after gene transfer. Cell, 43, 327-38. Pieper FR, Slobbe RL, Ramaekers FC, Cuypers HT, Bloemendal H (1987). Upstream regions of the Hamster desmin and vimentin genes regulate expression during in vitro myogenesis. EMBO J, 6, 3611-8. Krimpenfort PJ, Schaart G, Pieper FR, Ramaekers FC, Cuypers HT, Van den Heuvel RM, Vree Egberts WT, van Eys GJ, Berns A, Bloemendal H (1988). Tissue-specific expression of a vimentin-desmin hybrid gene in transgenic mice. EMBO J, 7, 941-7. van den Heuvel RM, van Eys GJ, Ramaekers FC, Quax WJ, Vree Egberts WT, Schaart G, Cuypers HT, Bloemendal H (1988). Intermediate filament formation after transfection with modified Hamster vimentin and desmin genes. J Cell Sci, 88, 475-82. Pieper FR, Schaart G, Krimpenfort PJ, Henderik JB, Moshage HJ, van de Kemp A, Ramaekers FC, Berns A, Bloemendal H (1989). Transgenic expression of the muscle-specific intermediate filament protein desmin in nonmuscle cells. J Cell Biol, 108, 1009-24. Schaart G, Viebahn C, Langmann W, Ramaekers F (1989). Desmin and titin expression in early postimplantation Mouse embryos. Development, 107, 585-96. Raats JM, Pieper FR, Vree Egberts WT, Verrijp KN, Ramaekers FC, Bloemendal H (1990). Assembly of amino-terminally deleted desmin in vimentin-free cells. J Cell Biol, 111, 1971-85. Council, L., Hameed, O. (2009). Differential expression of immunohistochemical markers in bladder smooth muscle and myofibroblasts, and the potential utility of desmin, smoothelin, and vimentin in staging of bladder carcinoma Modern Pathology 22, 639-50.

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 ; Q8IZR1 ; Q8IZR6 ; Q8NES2 ; Q8NEU6 ; Q8TAC4 ; Q8TCX2 ; Q8TD99 ; Q9UHN5 ; Q9UJ80 ; Q2PUK1 ; Q45VM6 ; Q45VM7 ; Q45VM8 ; Q53SB5 ; Q549R7 ; Q549R8 ; Q549R9 ; Q5RLN0
NCBI Official Full Name	desmin
NCBI Official Synonym Full Names	desmin
NCBI Official Symbol	DES
NCBI Official Synonym Symbols	CSM1; CSM2; CMD1; FLJ12025; FLJ39719; FLJ41013; FLJ41793
NCBI Protein Information	desmin; OTTHUMP00000064865; intermediate filament protein
UniProt Protein Name	Desmin
UniProt Gene Name	DES
UniProt Entry Name	DESM_HUMAN

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.