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- Expressversand

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# Desmin (h2): 293T Lysate: sc-170763

## BACKGROUND

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  $\alpha$ -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. Desmin makes up attachments between the terminal Z-disc and membrane-associated proteins to form a force transmitting system. Mutations in the gene encoding for Desmin are associated with adult onset skeletal myopathy, sporadic disease and mild cardiac involvement.

## REFERENCES

- Li, Z.L., et al. 1989. Human Desmin-coding gene: complete nucleotide sequence, characterization and regulation of expression during myogenesis and development. *Gene* 78: 243-254.
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- Gereben, B., et al. 1995. Species-specificity of glial Vimentin as revealed by immunocytochemical studies with the Vim 3B4 and V9 monoclonal antibodies. *Neurobiology* 3: 151-164.
- Andreoli, J.M. and Trevor, K.T. 1995. Structural and biological consequences of increased Vimentin expression in simple epithelial cell types. *Cell Motil. Cytoskeleton* 32: 10-25.
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- Essa, T.M., et al. 1996. Vimentin expression in different types of breast carcinoma immunohistochemical study. *J. Egypt. Soc. Parasitol.* 26: 433-442.
- Chu, Y.W., et al. 1996. Experimental coexpression of Vimentin and keratin intermediate filaments in human melanoma cells augments motility. *Am. J. Pathol.* 148: 63-69.

## CHROMOSOMAL LOCATION

Genetic locus: DES (human) mapping to 2q35.

## PRODUCT

Desmin (h2): 293T Lysate represents a lysate of human Desmin transfected 293T cells and is provided as 100  $\mu$ g protein in 200  $\mu$ l SDS-PAGE buffer.

## STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

## APPLICATIONS

Desmin (h2): 293T Lysate is suitable as a Western Blotting positive control for human reactive Desmin antibodies. Recommended use: 10-20  $\mu$ l per lane.

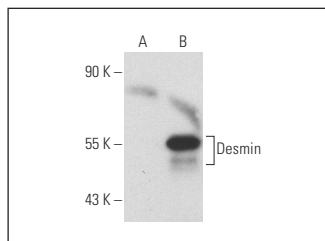
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

Desmin (10H7D2): sc-65983 is recommended as a positive control antibody for Western Blot analysis of enhanced human Desmin expression in Desmin transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

## RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgG $\kappa$  BP-HRP: sc-516102 or m-IgG $\kappa$  BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

## DATA



Desmin (10H7D2): sc-65983. Western blot analysis of Desmin expression in non-transfected: sc-117752 (A) and human Desmin transfected: sc-170763 (B) 293T whole cell lysates.

## RESEARCH USE

For research use only, not for use in diagnostic procedures.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) for detailed protocols and support products.