

# Product Datasheet

## Desmin Antibody NBP1-06984

Unit Size: 0.1 mg

Store at -20C. Avoid freeze-thaw cycles.

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**NBP1-06984**

Desmin Antibody

Product Information	
Unit Size	0.1 mg
Concentration	0.5 mg/ml
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	Tris saline (20 mM Tris pH 7.3, 150 mM NaCl), 0.5% BSA

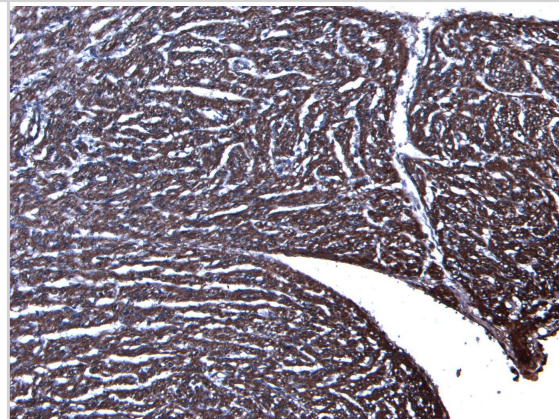
Product Description	
Host	Goat
Gene ID	1674
Gene Symbol	DES
Species	Human, Mouse, Rat
Reactivity Notes	Rat reactivity reported in scientific literature (PMID: 25575786).
Immunogen	Peptide with sequence C-RDGEVVSEATQQQHE corresponding to C-Terminus according to NP_001918.3.

Product Application Details	
Applications	Western Blot, Immunohistochemistry, Immunohistochemistry-Paraffin, Peptide ELISA
Recommended Dilutions	Western Blot 0.01-0.3 ug/ml, Immunohistochemistry, Immunohistochemistry-Paraffin 4-6 ug/ml, Peptide ELISA Detection limit 1:128000
Application Notes	Western blot: Approx. 55-60kDa band observed in Human and Mouse Skeletal Muscle lysates and in Human Heart lysates (calculated MW of 53.5kDa according to Human NP_001918.3, and Mouse NP_034173.1). Preliminary testing showed a band at approx 60kDa in Rat and Pig Skeletal muscle lysate. Primary incubation 1 hour at room temperature. Use in Immunohistochemistry-paraffin reported in scientific literature (PMID: 25575786).

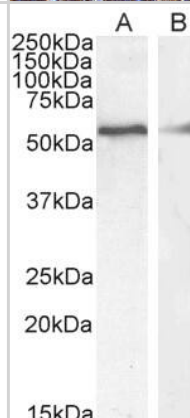


## Images

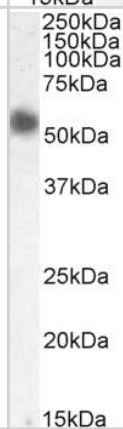
Immunohistochemistry-Paraffin: Desmin Antibody [NBP1-06984] - (6ug/ml) staining of paraffin embedded Human Heart. Heat induced antigen retrieval with citrate buffer pH 6, HRP-staining.



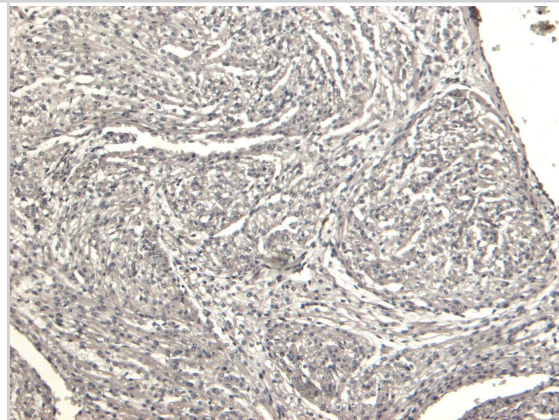
Western Blot: Desmin Antibody [NBP1-06984] - (0.01ug/ml) staining of Human Skeletal Muscle (A) and (0.3ug/ml) Heart (B) lysate (35ug protein in RIPA buffer). Detected by chemiluminescence.



Western Blot: Desmin Antibody [NBP1-06984] - (0.1ug/ml) staining of Mouse Skeletal Muscle lysate (35ug protein in RIPA buffer). Detected by chemiluminescence.



Immunohistochemistry-Paraffin: Desmin Antibody [NBP1-06984] - Negative Control showing staining of paraffin embedded Human Heart, with no primary antibody.



## Publications

Chen F, Chang R, Trivedi M et al. Caspase proteolysis of desmin produces a dominant-negative inhibitor of intermediate filaments and promotes apoptosis. *J Biol Chem* 2003-02-28 [PMID: 12477713]

Raghuvanshi S, Reed V, Blaner WS, Harrison EH. Cellular localization of beta-carotene 15,15' oxygenase-1 (BCO1) and beta-carotene 9',10' oxygenase-2 (BCO2) in rat liver and intestine *Arch. Biochem. Biophys.* 2015-01-06 [PMID: 25575786] (IHC-P, WB, Rat)

### Details:

Goat anti-human Desmin antibody used for IHC staining of formalin-fixed, paraffin-embedded rat's liver sections - endogenous peroxidase blocked with 3% H<sub>2</sub>O<sub>2</sub>, endogenous IgG blocked with 3% BSA-1.28% NDS -PBS pH 7.4, primary antibody used at 1:50 dilution and detected with biotin-SP conjugated donkey anti-goat secondary antibody, final detection via anti-biotin conjugated HRP - DAB and counterstaining with Hematoxylin. Desmin was used as a stellate cell marker and the hepatic stellate cells/HSCs are shown in the IHC data image (Fig. 6). The antibody was used for WB also and a single band for desmin protein at 52kDa was observed in the lysates of rat liver (data not shown).





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### **Products Related to NBP1-06984**

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NBL1-09840	Desmin Overexpression Lysate
HAF017	Rabbit anti-Goat IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
HAF109	Donkey anti-Goat IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
NB410-28088-1mg	Goat IgG Isotype Control

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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