***DATA SHEET***

# Desmin (Muscle Cell Marker) Ab-1 (Clone D33)

Mouse Monoclonal Antibody

**Catalog #DLN-09168, DLN-09169, or DLN-09167 (0.1ml, 0.5ml, or 1.0ml)**
**Catalog #DLN-09166 (7.0ml)**

***Description:*** Desmin is an intermediate filament protein of both smooth and striated muscles. Antibody to desmin reacts with striated (skeletal and cardiac) as well as smooth muscle cells. In skeletal and cardiac muscles, the staining is confined to the Z-bands giving a characteristic striated appearance. Anti-desmin antibody is useful in identification of tumors of myogenic origin. It reacts with leiomyosarcomas (smooth muscle) as well as rhabdomyosarcomas (striated muscle).

***Comments:*** Ab-1 is excellent for staining of formalin-fixed paraffin-embedded tumors of smooth as well as striated muscles.

***Mol. Wt. of Antigen:*** 53kDa

***Epitope:*** Not determined

***Species Reactivity:*** Human, Baboon, Monkey, Cow, Cat, Dog, Hamster, Rat, and Chicken. Others-not known.

***Clone Designation:*** D33

***Ig Isotype / Light Chain:*** $IgG_1$ / κ

***Immunogen:*** Desmin from human muscle

## *Applications and Suggested Dilutions:*

- Immunofluorescence
- Immunohistology (Formalin/paraffin)
  (Ab 1:50-1:100 for 20 min at RT)

* [No special pretreatment is required for histochemical staining of formalin/paraffin tissues.]

The optimal dilution for a specific application should be determined by the investigator.

***Positive Control:*** Muscle or Sarcoma

***Cellular Localization:*** Cytoplasmic

## *Supplied As:*

Tissue culture supernatant with 0.09% sodium azide,

or

Prediluted antibody which is ready-to-use for staining of formalin-fixed, paraffin-embedded tissues.

## *Storage and Stability:*

Store vial at 4°C. When stored at 2-8°C, this antibody is stable for 24 months.

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## *Suggested References :*


1. Van Muijen GN; et al. Laboratory Investigation, 1987 Oct, 57(4):359-69.
2. Virtanen I; et al. Anatomical Record, 1986 May, 215(1):10-20.


## *Limitations and Warranty:*

Our products are intended FOR RESEARCH USE ONLY and are not approved for clinical diagnosis, drug use or therapeutic procedures. No products are to be construed as a recommendation for use in violation of any patents. We make no representations, warranties or assurances as to the accuracy or completeness of information provided on our data sheets and website. Our warranty is limited to the actual price paid for the product. Dianova is not liable for any property damage, personal injury, time or effort or economic loss caused by our products.

## *Material Safety Data:*

This product is not licensed or approved for administration to humans or to animals other than the experimental animals. Standard Laboratory Practices should be followed when handling this material. The chemical, physical, and toxicological properties of this material have not been thoroughly investigated. Appropriate measures should be taken to avoid skin and eye contact, inhalation, and ingestion. The material contains 0.09% sodium azide as a preservative. Although the quantity of azide is very small, appropriate care should be taken when handling this material as indicated above. The National Institute of Occupational Safety and Health has issued a bulletin citing the potential explosion hazard due to the reaction of sodium azide with copper, lead, brass, or solder in the plumbing systems. Sodium azide forms hydrazoic acid in acidic conditions and should be discarded in a large volume of running water to avoid deposits forming in metal drainage pipes.

***For Research Use Only***


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### *Additional Suggested References:*


1. Van Muijen GN; Ruiter DJ; Warnaar SO. Coexpression of intermediate filament polypeptides in human fetal and adult tissues. Laboratory Investigation, 1987 Oct, 57(4):359-69.
2. Virtanen I; Kallajoki M; Narvanen O; Paranko J; Thornell LE; Miettinen M; Lehto VP. Peritubular myoid cells of human and rat testis are smooth muscle cells that contain desmin-type intermediate filaments. Anatomical Record, 1986 May, 215(1):10-20.
3. Altmannsberger M; Weber K; Droste R; Osborn M. Desmin is a specific marker for rhabdomyosarcomas of human and rat origin. American Journal of Pathology, 1985, 118(1):85-95.
4. Miettinen M; Lehto VP; Virtanen I. Antibodies to intermediate filament proteins. The differential diagnosis of cutaneous tumors. Archives of Dermatology, 1985 Jun, 121(6):736-41.
5. Virtanen I; Miettinen M; Lehto VP; Kariniemi AL; Paasivuo R. Diagnostic application of monoclonal antibodies to intermediate filaments. Annals of the New York Academy of Sciences, 1985, 455:635-48.
6. classification of human tumors. Ultrastructural Pathology, 1984, 7(2-3):83-107.
7. Miettinen M; Lehto VP; Ekblom P; Tasanen A; Virtanen I. Leiomyosarcoma of the mandible: diagnosis as aided by immunohistochemical demonstration of desmin and laminin. Journal of Oral Pathology, 1984 Aug, 13(4):373-81.
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9. Miettinen M; Lehto VP; Badley RA; Virtanen I. Alveolar rhabdomyosarcoma. Demonstration of the muscle type of intermediate filament protein, desmin, as a diagnostic aid. American Journal of Pathology, 1982 Aug, 108(2):246-51.
10. Miettinen M; Lehto VP; Badley RA; Virtanen I. Expression of intermediate filaments in soft-tissue sarcomas. International Journal of Cancer, 1982 Nov 15, 30(5):541-6.



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