P.O. Box 3286 - Logan, Utah 84323, U.S.A. - Tel. (800) 729-8350 – Tel. (435) 755-9848 - Fax (435) 755-0015 - www.scytek.com

Desmin (Muscle Cell Marker); Clone D33
(Concentrate)

Availability/Contents:

Item #	Volume
RA0459-C.1	0.1 ml
RA0459-C.5	0.5 ml
RA0459-C1	1 ml

Description:

Species:	Mouse
Immunogen:	Proteins from human Leiomyoma.
Clone:	D33
Isotype:	IgG1, kappa
Entrez Gene ID:	1674 (Human)
Hu Chromosome Loc.:	2q35
Synonyms:	CMD1I, CSM1, CSM2,DES, Intermediate Filament Protein.
Mol. Weight of Antigen:	52kDa
Format:	Tissue culture supernatant. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide.
Specificity:	Desmin, Clone D33 detects cells of normal smooth, skeletal, and cardiac muscles. This antibody reacts with leiomyomas, leiomyosarcoma, rhabdomyomas, rhabdomyosarcoma, and perivascular cells of glomus tumors of the skin.
Background:	Cytoskeletal intermediate filaments constitute a diverse group of proteins that are expressed in a highly tissue-specific manner. Intermediate filaments are constructed from two-chain α-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 and Desmin, a related class III intermediate filament, 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.
Species Reactivity:	Human, Rat, Mouse, Hamster, Chicken. Others not known.
Positive Control:	Muscle, Uterus, Leiomyosarcoma or SJRH30 cells.
Cellular Localization:	Cytoplasmic.
Titer/ Working Dilution:	Immunohistochemistry (Frozen and Formalin-fixed): 1:100 – 1:200 Flow Cytometry: 2-5 µl/million cells Immunofluorescence: 1:100 – 1:200
Microbiological State:	This product is not sterile.

Storage: 2° C 8° C

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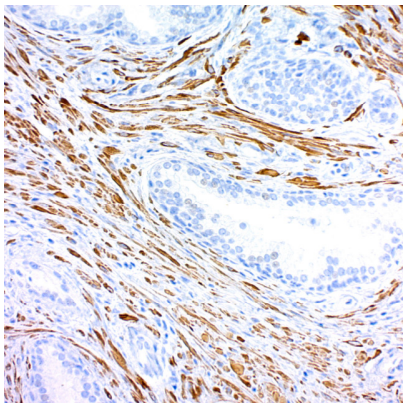
Uses/Limitations:

Not to be taken internally.
For Research Use Only.
This product is intended for qualitative immunohistochemistry with normal and neoplastic formalin-fixed, paraffin-embedded tissue sections, to be viewed by light microscopy.
Do not use if reagent becomes cloudy.
Do not use past expiration date.
Non-Sterile.

Ordering Information and Current Pricing at www.scytek.com



FFPE Prostate stained with Desmin; Clone D33.

Procedure:

1. **Tissue Section Pretreatment (Recommended):** Staining of formalin fixed, paraffin embedded tissue sections is significantly enhanced by pretreatment with Citrate Plus (ScyTek catalog# CPL500).

2. **Primary Antibody Incubation Time:** We suggest an incubation period of 30 minutes at room temperature for human. We suggest an incubation period of 60 minutes at room temperature for Pig and Dog. However, depending upon the fixation conditions and the staining system employed, optimal incubation should be determined by the user.

3. **Visualization:** For maximum staining intensity we recommend the "UltraTek HRP Anti-Polyvalent Lab Pack" (ScyTek catalog# UHP125, see IFU for instructions) combined with the "DAB Chromogen/Substrate Bulk Pack (High Contrast)" (ScyTek catalog# ACV500, see IFU for instructions).

Precautions:

Contains Sodium Azide as a preservative (0.09% w/v).
Do not pipette by mouth.
Avoid contact of reagents and specimens with skin and mucous membranes.
Avoid microbial contamination of reagents or increased nonspecific staining may occur.
This product contains no hazardous material at a reportable concentration according to U.S. 29 CFR 1910.1200, OSHA Hazardous Communication Standard and EC Directive 91/155/EC.

References:

1. Debus E, et al. EMBO J. 1983; 2:2305-2312.
2. Altmannsberger M, et al. Am J Pathol. 1985; 118:85-95.

Warranty:

No products or "Instructions For Use (IFU)" 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 IFU or website. Our warranty is limited to the actual price paid for the product. ScyTek Laboratories, Inc. is not liable for any property damage, personal injury, time or effort or economic loss caused by our products. Immunohistochemistry is a complex technique involving both histological and immunological detection methods. Tissue processing and handling prior to immunostaining can cause inconsistent results. Variations in fixation and embedding or the inherent nature of the tissue specimen may cause variations in results. Endogenous peroxidase activity or pseudoperoxidase activity in erythrocytes and endogenous biotin may cause non-specific staining depending on detection system used.

Storage: 2° C 8° C

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