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antibody and ELISA experts

BOSTER BIOLOGICAL TECHNOLOGY
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Anti-Desmin (Muscle Cell Marker) Monoclonal Antibody

Catalog Number: M01948

About DES

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 -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. Anti-desmin detects cells of normal smooth, skeletal, and cardiac muscles.Antibody reacts with leiomyomas, leiomyosarcoma, rhabdomyomas, rhabdomyosarcoma, and perivascular cells of glomus tumors of the skin.

Overview

Product Name	Anti-Desmin (Muscle Cell Marker) Monoclonal Antibody
Reactive Species	Chicken, Hamster, Human, Mouse, Rat
Description	Boster Bio Anti-Desmin (Muscle Cell Marker) Monoclonal Antibody (Catalog # M01948). Tested in IF, Flow Cytometry, WB, IHC applications. This antibody reacts with Human, Mouse, Rat, Hamster, Chicken.
Conjugate	Biotin
Application	Flow Cytometry, IF, IHC, WB
Clonality	Monoclonal Clone: DES/1711
Formulation	Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Storage Instructions	Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.
Host	Mouse
Uniprot ID	P17661

Technical Details

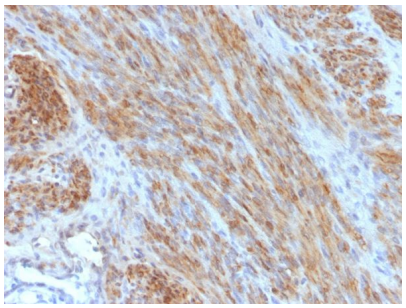
Immunogen	Recombinant human desmin protein
Predicted Reactive Species	Pig, Rabbit
Cross Reactivity	Does not cross-react with primate, avian or amphibian GR.
Isotype	IgG1, kappa

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Form	Liquid
Concentration	Purified antibody with BSA and azide at 200ug/ml
Purification	200ug/ml of antibody purified from Bioreactor Concentrate by Protein A/G.
Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows: Boster Bio's internal QC testing used: Immunofluorescence (1-2ug/ml) Flow Cytometry (1-2ug/million cells) Western Blot (1-2ug/ml) Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 30 minutes at RT)(Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95&degC followed by cooling at RT for 20 minutes) Optimal dilution for a specific application should be determined.

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Anti-Desmin (Muscle Cell Marker) Monoclonal Antibody (M01948) Images



Formalin-fixed, paraffin-embedded human Uterus stained with Anti-Desmin Monoclonal Antibody (DES/1711)

4 Publications Citing This Product

1. PubMed ID: 26286600, Identification of apoptosis-related microRNAs and their target genes in myocardial infarction post-transplantation with skeletal myoblasts

2. PubMed ID: 21476855, Qian Q, Qian H, Zhang X, Zhu W, Yan Y, Ye S, Peng X, Li W, Xu Z, Sun L, Xu W. Stem Cells Dev. 2012 Jan;21(1):67-75. Doi: 10.1089/Scd.2010.0519. Epub 2011 Jun 1. 5-Azacytidine Induces Cardiac Differentiation Of Human Umbilical Cord-Derived Mesenchy...

3. PubMed ID: 23560091, Pan X, Chen Z, Huang R, Yao Y, Ma G. Plos One. 2013;8(4):E60335. Doi: 10.1371/Journal.Pone.0060335. Epub 2013 Apr 1. Transforming Growth Factor ??1 Induces The Expression Of Collagen Type I By Dna Methylation In Cardiac Fibroblasts.

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