Product datasheet

Anti-Desmin/DES Antibody (Clone#2B5)

Catalog Number: *M01948-3*

BOSTER
antibody and ELISA experts
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Basic Information

Product Name	Anti-Desmin/DES Antibody (Clone#2B5)
Gene Name	DES
Source	Mouse
Clonality	Monoclonal
Isotype	IgG2b
Species Reactivity	human, mouse, rat
Tested Application	WB, IHC, FCM
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.
Immunogen	E.coli-derived human Desmin recombinant protein (Position: M1-T304). Human Desmin shares 97% amino acid (aa) sequence identity with both mouse and rat Desmin.
Concentration	500 ug/ml
Purification	protein G purified.
Observed MW	54 kDa
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry (IHC): 1:50-400 Flow Cytometry (Fixed): 1:50-200 (Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.

Storage

12 months from date of receipt，-20℃ as supplied. 6 months 2 to 8℃ after reconstitution. Avoid repeated freezing and thawing.

Background Information

DES, also called desmin, is a protein that in humans is encoded by the DES gene, and this gene is mapped to 2q35. DES is the muscle-specific member of the intermediate filament (IF) protein family. It is one of the earliest myogenic markers, both in heart and somites, and is expressed in satellite stem cells and replicating myoblasts. DES is very important in muscle cell architecture and structure since it connects many components of the cytoplasm. It may be also play an important role in mitochondria function. What’s more, DES provides attachments between the terminal Z disc and membrane-associated proteins to form a force-transmitting system that parallels the thin filaments at myotendinous junctions.

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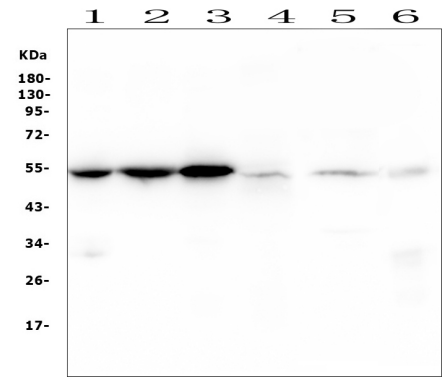
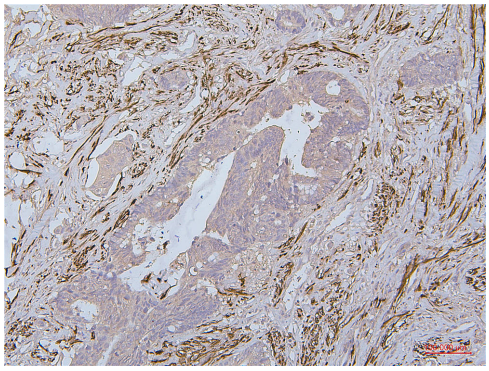
Reference

Anti-Desmin/DES Antibody (Clone#2B5)被引用在11文献中。

Selected Validation Data



Western blot analysis of Desmin/DES using anti-Desmin/DES antibody (M01948-3). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: rat heart tissue lysates,
Lane 2: rat skeletal muscle tissue lysates,
Lane 3: mouse heart tissue lysates,
Lane 4: mouse skeletal muscle tissue lysates,
Lane 5: human K562 whole cell lysates,
Lane 6: rat liver tissue lysates.
After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with mouse anti-Desmin/DES antigen affinity purified monoclonal antibody (M01948-3) at a dilution of 1:1000 and probed with a goat anti-mouse IgG-HRP secondary antibody (Catalog # BA1050). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for Desmin/DES at approximately 54 kDa. The expected band size for Desmin/DES is at 54 kDa.



IHC analysis of Desmin/DES using anti-Desmin/DES antibody (M01948-3).
Desmin/DES was detected in a paraffin-embedded section of human colon cancer tissue. Biotinylated goat anti-mouse IgG was used as secondary antibody. The tissue section was incubated with mouse anti-Desmin/DES Antibody (M01948-3) at a dilution of 1:200 and developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1021) with DAB (Catalog # AR1027) as the chromogen.

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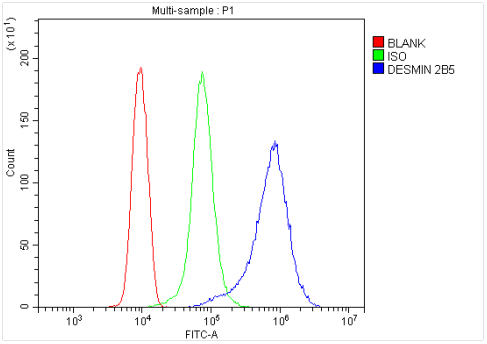

Flow Cytometry analysis of THP-1 cells using anti-Desmin/DES antibody (M01948-3).
Overlay histogram showing THP-1 cells stained with M01948-3 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with mouse anti-Desmin/DES Antibody (M01948-3) at 1:100 dilution for 30 min at 20°C. DyLight®488 conjugated goat anti-mouse IgG (BA1126) was used as secondary antibody at 1:100 dilution for 30 minutes at 20°C. Isotype control antibody (Green line) was mouse IgG at 1:100 dilution used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.