

Basic Information

Product Name	Anti-Desmin/DES Antibody (Clone#DE-U-10)	
Gene Name	DES	
Source	Mouse	
Isotype	IgG1	
Species Reactivity	human,mouse,rat,rabbit	
Tested Application	WB,IHC	
Contents	200ug/ml antibody with PBS , 0.02% NaN ₃ , 1mg BSA and 50% glycerol.	
Immunogen	Desmin from pig stomach.	
concentration	200 ug/ml	
Purification	Ascites	
Observed MW	54KD	
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry in paraffin section (IHC): 1:50-400 (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°C as supplied. 6 months 2 to 8°C after reconstitution. Avoid repeated freezing and thawing.

Background Information

Desmin belongs to the type III family of intermediate filaments, a class of cytoskeletal elements. DES gene encodes desmin, a muscle-specific cytoskeletal protein found in smooth, cardiac, and heart muscles. Tidball(1992) found that desmin was codistributed with actin thin filaments within the cellular processes of myotendinous junctions in frog skeletal muscle. DES gene contains 9 exons and spans about 8.4 kb. By in situ hybridization, Viegas-Pequignot et al.(1989) localized the gene to 2q35. Desmin mutation responsible for idiopathic dilated cardiomyopathy.

Reference

Anti-Desmin/DES Antibody (Clone#DE-U-10)被引用在7文献中。

Selected Validation Data

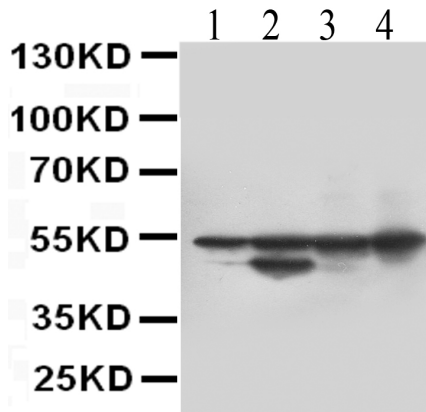


Figure 1. Western blot analysis of anti-Desmin antibody (BM0036).

The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: rat skeletal muscle tissue lysates,

Lane 2: rat cardiac muscle tissue lysates,

Lane 3: mouse skeletal muscle tissue lysates,

Lane 4: mouse cardiac muscle tissue lysates.

After electrophoresis, proteins were transferred to a membrane.

Then the membrane was incubated with mouse anti-Desmin antigen affinity purified polyclonal antibody (BM0036) 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 at approximately 54 kDa. The expected band size for Desmin is at 54 kDa.

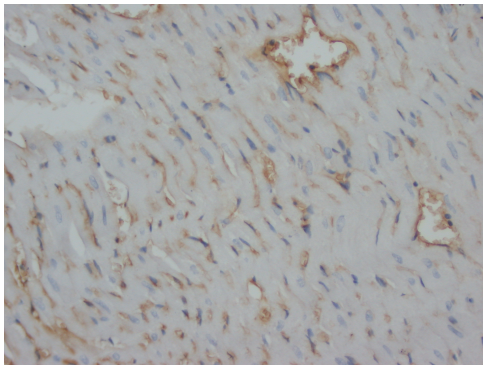


Figure 2. IHC analysis of Desmin using anti-Desmin antibody (BM0036).

Desmin was detected in a paraffin-embedded section of rat cardiac muscle tissue. The tissue section was developed using HRP Conjugated mouse IgG Super Vision Assay Kit (Catalog # SV0001) with DAB (Catalog # AR1022) as the chromogen.