

## 10-6528: Mouse Monoclonal Antibody to Beta-Actin (Clone: 137CT26.1.1)(Discontinued)

<b>Clonality :</b>	Monoclonal
<b>Clone Name :</b>	137CT26.1.1
<b>Application :</b>	FACS, WB, IF
<b>Reactivity :</b>	Rat, Mouse, Human
<b>Gene :</b>	ACTB
<b>Gene ID :</b>	60
<b>Uniprot ID :</b>	P60709
<b>Format :</b>	Purified
<b>Alternative Name :</b>	Actin, cytoplasmic 1, Beta-actin, Actin, cytoplasmic 1, N-terminally processed, ACTB
<b>Isotype :</b>	Mouse IgG1, Kappa
<b>Immunogen Information :</b>	Recombinant Protein

### Description

This gene encodes one of six different actin proteins. Actins are highly conserved proteins that are involved in cell motility, structure, and integrity. This actin is a major constituent of the contractile apparatus and one of the two nonmuscle cytoskeletal actins.

### Product Info

<b>Amount :</b>	80 µl / 400 µl
<b>Purification :</b>	Protein G Chromatography
<b>Content :</b>	Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.
<b>Storage condition :</b>	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term store at -20°C in small aliquots to prevent freeze-thaw cycles.

### Application Note

FACS~1:25|| WB~1:1000|| IHC-P~1:10~50

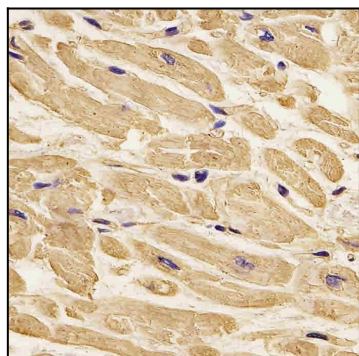


Figure 1: Staining of ACTB antibody (10-6528) in human heart tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked with 3% BSA for 0.5 hour at room temperature; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody (1/25) for 1 hour at 37°C. A undiluted biotinylated goat polyvalent antibody was used as the secondary antibody.

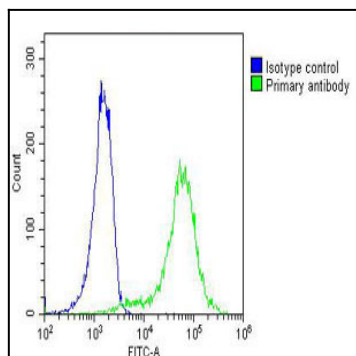


Figure 2: Overlay histogram showing A431 cells stained with ACTB antibody (10-6528) (green line). The cells were fixed with 2% paraformaldehyde (10 min) and then permeabilized with 90% methanol for 10 min. The cells were then incubated in 2% bovine serum albumin to block non-specific protein-protein interactions followed by the antibody with 1:25 dilution for 60 min at 37°C. The secondary antibody used was Goat-Anti-Mouse IgG, DyLight® 488 Conjugated Highly Cross-Adsorbed at 1/200 dilution for 40 min at 37°C. Isotype control antibody (blue line) was mouse IgG1 (1 µg/1x10<sup>6</sup> cells) used under the same conditions. Acquisition of >10, 000 events was performed.

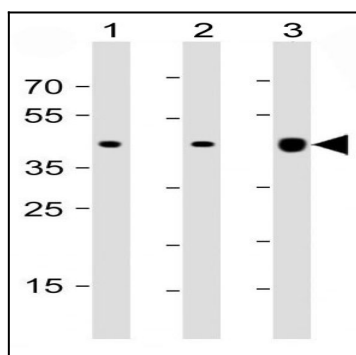


Figure 3: All lanes : Anti-ACTB Antibody (10-6528) at 1:1000 dilution with Lane 1: HeLa whole cell lysate, Lane 2: HepG2 whole cell lysate, Lane 3: NIH-3T3 whole cell lysates/proteins at 20 µg per lane. Secondary Goat Anti-mouse IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 42 kDa.

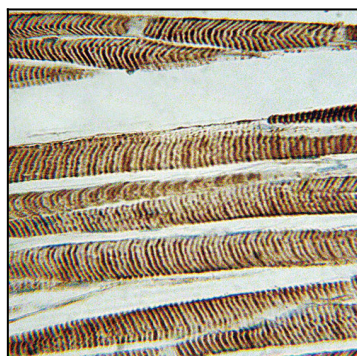


Figure 4: Immunohistochemical analysis of paraffin-embedded h skeletal muscle section using Beta-Actin Antibody (10-6528). Beta-Actin Antibody was diluted at 1:25 dilution. A peroxidase-conjugated goat anti-mouse IgG at 1:400 dilution was used as the secondary antibody, followed by DAB staining.

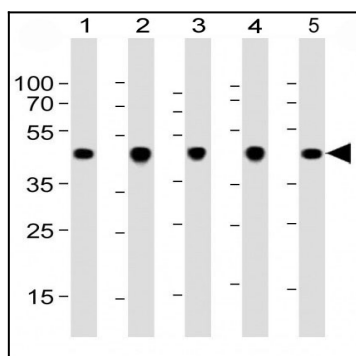


Figure 5: All lanes : Anti-ACTB Antibody (10-6528) at 1:1000 dilution with Lane 1: A431 whole cell lysate, Lane 2: C2C12 whole cell lysate, Lane 3: C6 whole cell lysate, Lane 4: HeLa whole cell lysate, Lane 5: MCF-7 whole cell lysates/proteins at 20 µg per lane. Secondary Goat Anti-mouse IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 42 kDa.

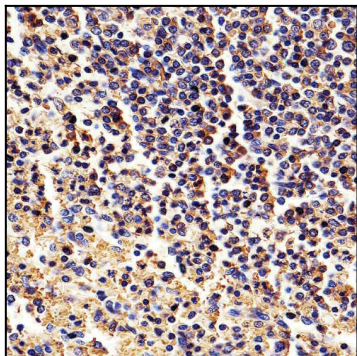


Figure 6 : Immunohistochemical analysis of paraffin-embedded h spleen section using Beta-Actin Antibody ( 10-6528). Beta-Actin Antibody was diluted at 1:25 dilution. A peroxidase-conjugated goat anti-rabbit IgG at 1:400 dilution was used as the secondary antibody, followed by DAB staining.

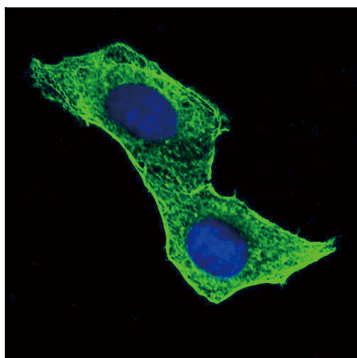


Figure 7: Confocal immunofluorescent analysis of ACTB Antibody (10-6528) with HeLa cell followed by Alexa Fluor® 488-conjugated goat anti-mouse IgG (green). DAPI was used to stain the cell nuclear (blue).