9853 Pacific Heights Blvd.
Suite D. San Diego,
CA 92121, USA
Tel: 858-263-4982
Email: info@abeomics.com

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

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

Amount :	80 µl / 400 µl
Purification :	Protein G Chromatography
Content :	Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.
Storage condition :	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

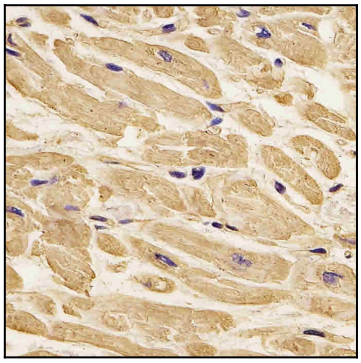


Figure 1: Staining of ACTB antibody (10-6528) in human heart tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked with 3% BSA for 0. 5 hour at room temperature; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody (1/25) for 1 hours at 37°C. A undiluted biotinylated goat polyvalent antibody was used as the secondary antibody.

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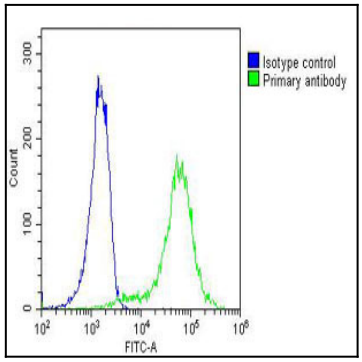


Figure 2: Overlay histogram showing A431 cells stained with ACTB antibody (10-6528) (green line). The cells were fixed with 2% paraformaldehyde (10 min) and then permeabilized with 90% methanol for 10 min. The cells were then icubated in 2% bovine serum albumin to block non-specific protein-protein interactions 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 (1Î¼g/1x10^6 cells) used under the same conditions. Acquisition of >10, 000 events was performed.

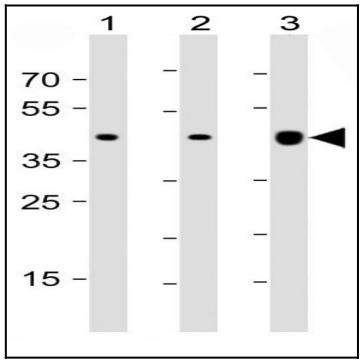


Figure 3: All lanes : Anti-ACTB Antibody (10-6528) at 1:1000 dilution with Lane 1: Hela whole cell lysate, Lane 2: HepG2 whole cell lysate, Lane 3: NIH-3T3 whole cell lysates/proteins at 20 µg per lane. Secondaryn Goat Anti-mouse IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size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

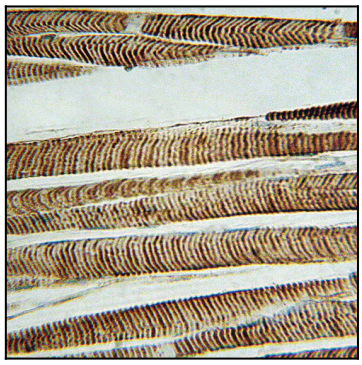


Figure 4: Immunohistochemical analysis of paraffin-embedded h skeletal muscle section using Beta-Actin Antibody (10-6528). Beta-Actin Antibody was diluted at 1:25 dilution. A peroxidase-conjugated goat anti-mouse IgG at 1:400 dilution was used as the secondary antibody, followed by DAB staining.

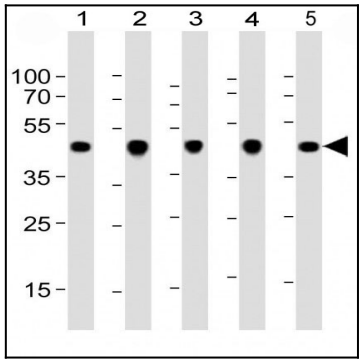


Figure 5: All lanes : Anti-ACTB Antibody (10-6528) at 1:1000 dilution with Lane 1: A431 whole cell lysate, Lane 2: C2C12 whole cell lysate, Lane 3: C6 whole cell lysate, Lane 4: Hela whole cell lysate, Lane 5: MCF-7 whole cell lysates/proteins at 20 Î¼g per lane. Secondary Goat Anti-mouse IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 42 kDa.

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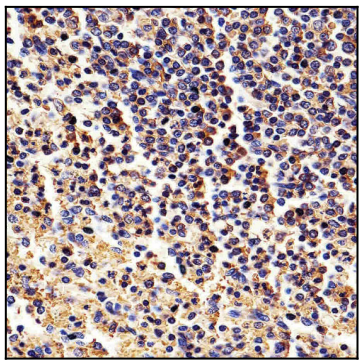


Figure 6 : Immunohistochemical analysis of paraffin-embedded h spleen section using Beta-Actin Antibody (10-6528). Beta-Actin Antibody was diluted at 1:25 dilution. A peroxidase-conjugated goat anti-rabbit lgG at 1:400 dilution was used as the secondary antibody, followed by DAB staining.

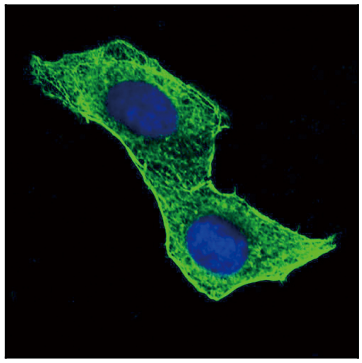


Figure 7: Confocal immunofluorescent analysis of ACTB Antibody (10-6528) with Hela cell followed by Alexa Fluor® 488-conjugated goat anti-mouse lgG (green). DAPI was used to stain the cell nuclear (blue).

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