β -Actin (4D3) monoclonal antibody

Catalog: BCP6607 Host: Mouse Reactivity: Human,Mouse,Rat

BackGround:

Actin, a ubiquitous eukaryotic protein, is the major component of the cytoskeleton. At least six isoforms are known in mammals. Nonmuscle β- and γ-actin, also known as cytoplasmic actin, are predominantly expressed in nonmuscle cells, controlling cell structure and motility. α-cardiac and α-skeletal actin are expressed in striated cardiac and skeletal muscles, respectively; two smooth muscle actins, α- and γ-actin, are found primarily in vascular smooth muscle and enteric smooth muscle, respectively. These actin isoforms regulate the contractile potential of muscle cells.

Product:

1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

Molecular Weight:

~ 42 kDa

Swiss-Prot:

N/A

Purification&Purity:

The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

Applications:

WB: 1:5000~1:20000

IHC: 1:100~1:1000

IF: 1:100~1:500

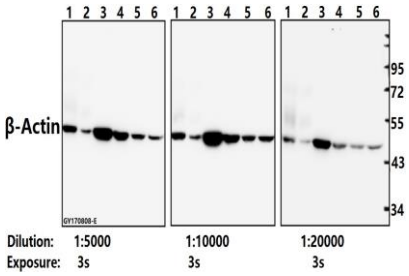
Storage&Stability:

Store at 4℃ short term. Aliquot and store at -20℃ long term. Avoid freeze-thaw cycles.

Specificity:

β -Actin (4D3) detects endogenous levels of β-actin protein.

DATA:



Western blot (WB) analysis of β-Actin (4D3) mAb at 1:5000-1:20000 dilution

Lane1:The Lung tissue lysate of Mouse(20ug)

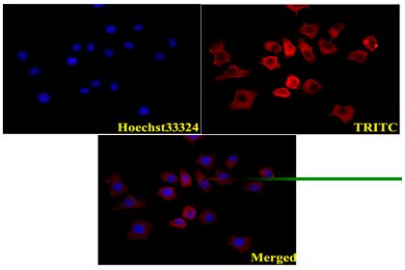
Lane2:The Lung tissue lysate of Rat(20ug)

Lane3:H9C2 whole cell lysate(20ug)

Lane4:CT26 whole cell lysate(20ug)

Lane5:L02 whole cell lysate(20ug)

Lane6:HEK293T whole cell lysate(20ug)



IF image of BCP6607 stained A549 cells.The cells were 4% paraformaldehyde fixed (20 min) and then incubated in 10% normal goat serum for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody β-Actin (4D3) #BCP6607(1:200) at 5μg/ml overnight at +4 ℃. The secondary antibody (Red) was Goat Anti-Mouse IgG (H+L) Rhodamine (TRITC) used at a 1/1000 dilution for 1h. Hoechst33342 was used to stain the cell nuclei (blue).

Note:

For research use only, not for use in diagnostic procedure.

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