

Product datasheet

anti-beta-actin mouse monoclonal, clone AC-15, liquid, purified, sample

Short overview

Cat. No. 690974S

 Quantity
 200 μl (100 μg/ml)

 Concentration
 100 μg/ml (20 μg)

Product description

HostMouseAntibody TypeMonoclonalIsotypeIgG1CloneAC-15

Immunogen Synthetic b-cytoplasmic actin

Formulation PBS, pH 7.4 with 0.09% sodium azide and 0.5% BSA

UniprotID
 P62739 (Bovine), P08023 (Chicken), P62736 (Human), P62737 (Mouse), P62738 (Rat)
 Synomym
 Actin, aortic smooth muscle, Alpha-actin-2, Cell growth-inhibiting gene 46 protein [Cleaved into:

Actin, aortic smooth muscle, intermediate form], ACTA2, ACTSA, ACTVS, GIG46

Conjugate Unconjugated

Purification Affinity chromatography

Storage 2-8°C

Intended use Research use only

Application IHC, WB **Reactivity** Human

Applications

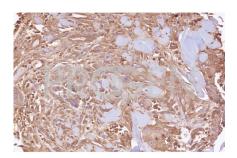
Immunohistochemistry (IHC) - paraffin 1:50-1:500 (0.2-2 μg/ml; microwave treatment recommended)

Western Blot (WB) 1:5,000 (20 ng/ml)

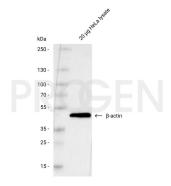
Background

Beta-Actin (42 kDa) is a highly conserved protein, which is able to polymerize to produce filaments. It is involved in cell motility, structure and integrity. Beta-Actin is a commonly used as a loading control for Western botting or as a housekeeping gene standard in qPCR.

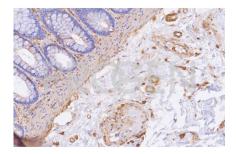
Product images



IHC analysis of human head and neck squamous cell carcinoma using anti-beta-actin antibody (Cat. No. 690974). IHC was performed on formalin fixed paraffin embedded sections. The samples were deparaffinized with xylol and ethanol followed by heat induced antigen retrieval with 10 mM citrate buffer. After preparation the tissue was blocked with normal serum for 20 min at RT. The primary antibody anti-beta-actin mouse monoclonal, clone AC-15 was diluted in PBS (antibody concentration 500 ng/ml) and incubated at 4°C over-night. The secondary antibody ImmPRESS HRP anti-mouse IgG was incubated for 20 min at RT. Slides were incubated with DAB solution until a brown staining is visable and with Haemalaun for a few minutes. The 20x picture was acquired using microscopy (courtesy of J. Hess, University Hospital Heidelberg).



Western blot analysis of HeLa lysate with anti-beta-actin antibody. Western blot analysis was performed on 20 μ g HeLa lysate. Cells were lysed with RIPA buffer. The PVDF membrane was blocked with 5% dry milk in PBST (PBS + 0.1% Tween 20) for 1 h at RT. The primary antibody anti-beta-actin antibody mouse monoclonal, clone AC-15 (Cat. No. 690974) was diluted in blocking buffer (antibody concentration 0.02 μ g/ml) and incubated for 1 h at RT. The secondary antibody anti-mouse IgG goat polyclonal, HRP conjugate was also diluted in blocking buffer (antibody concentration 0.4 μ g/ml) and incubated for 1 h at RT. The bands were visualized by chemiluminescent detection using PierceTM ECL Western Blotting Substrate.



IHC analysis of human colon using anti-beta-actin antibody. IHC was performed on formalin fixed paraffin embedded sections. The samples were deparaffinized with xylol and ethanol followed by heat induced antigen retrieval with 10 mM citrate buffer. After preparation the tissue was blocked with normal serum for 20 min at RT. The primary antibody anti-beta-actin mouse monoclonal, clone AC-15 (Cat. No. 690974) was diluted in PBS (antibody concentration 500 ng/ml) and incubated at 4°C over-night. The secondary antibody HRP anti-mouse IgG was incubated for 20 min at RT. Slides were incubated with DAB solution until a brown staining is visable and with Haemalaun for a few minutes. The 20x picture was acquired using microscopy (courtesy of J. Hess, University Hospital Heidelberg).