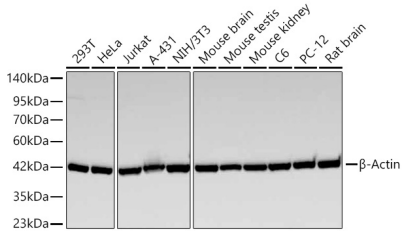
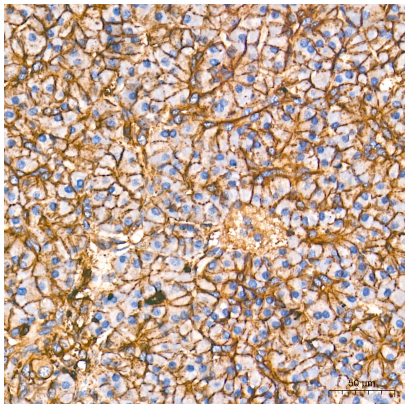
Product Data Sheet
β-Actin Mouse mAb

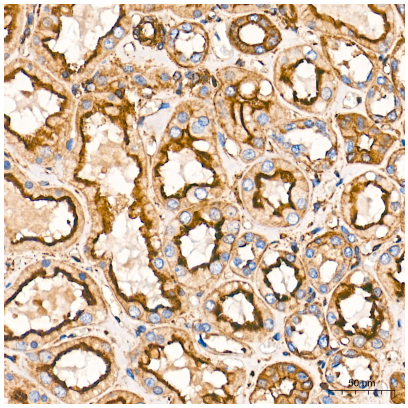
Product name:	β-Actin Mouse mAb
Cat number:	AB004
Conjugate:	Unconjugated
Size:	100 ug
Clone:	AMC0001
Concentration:	1mg/ml
Host:	Rabbit
Isotype:	IgG1,Kappa
Immunogen:	Fusion protein of human β-Actin
Reactivity:	Human,Mouse,Rat
Applications:	WB,1:5000-1:160000 IHC-P,1:50 - 1:200 IF/ICC,1:50 - 1:200 ELISA,Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.
Molecular Weight:	42kDa
Purification:	Affinity purification
Form:	liquid
Buffer:	PBS with 0.05% proclin300,50% glycerol,pH7.3.
Storage:	Store at -20℃. Avoid freeze / thaw cycles.
Background:	This gene encodes one of six different actin proteins. Actins are highly conserved proteins that are involved in cell motility, structure, integrity, and intercellular signaling. The encoded protein is a major constituent of the contractile apparatus and one of the two nonmuscle cytoskeletal actins that are ubiquitously expressed. Mutations in this gene cause Baraitser-Winter syndrome 1, which is characterized by intellectual disability with a distinctive facial appearance in human patients. Numerous pseudogenes of this gene have been identified throughout the human genome.



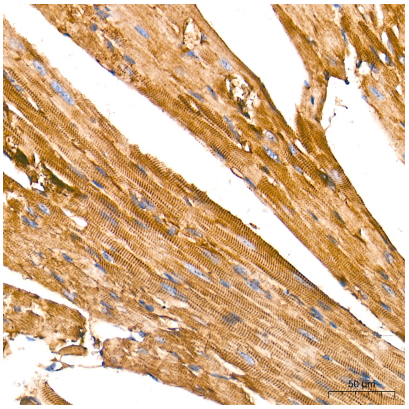
Western blot analysis of lysates from HeLa cells, using β-Actin Mouse mAb (AC004) at 1:2000-1:640000 dilution. Secondary antibody: HRP-conjugated Goat anti-Mouse IgG (H+L) (AS003) at 1:10000 dilution. Lysates/proteins: 25µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 10s.



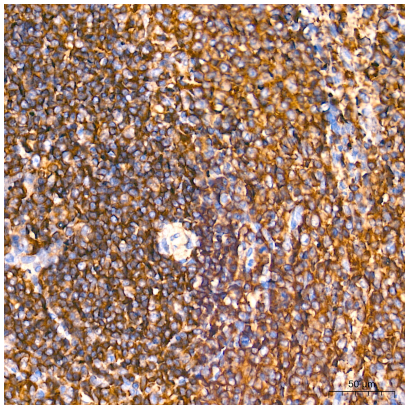
Western blot analysis of various lysates, using β-Actin Mouse mAb (AC004) at 1:20000 dilution. Secondary antibody: HRP-conjugated Goat anti-Mouse IgG (H+L) (AS003) at 1:10000 dilution. Lysates/proteins: 25µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 1s.



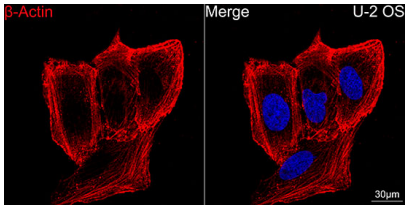
Immunohistochemistry analysis of paraffin-embedded Human colon tissue using β-Actin Mouse mAb (AC004) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Bufferr (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Mouse testis tissue using β-Actin Mouse mAb (AC004) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Bufferr (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Rat spleen tissue using β-Actin Mouse mAb (AC004) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Bufferr (pH 6.0) prior to IHC staining.



Immunofluorescence analysis of U2OS cells using β-Actin Mouse mAb (AC004) at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.