alpha-Actin-1 (ACTA1) Monoclonal Antibody
CAB2319

Description

This alpha-Actin-1 (ACTA1) Monoclonal Antibody is supplied as a kit for advanced applications. The kit includes Bradford Reagent to quantify total protein concentration for accurate sample normalization (Optional).

Product Information

SKU:	CAB2319
Contents:	20 μL, 100 μL
	Bradford Reagent: 1 vial (2ml)
Category:	Monoclonal Antibody
Synonyms:	ACTA, ASMA, CFTD, MPFD, NEM1, NEM2, NEM3, SHPM, CFTD1, CFTDM, CMYP2A, CMYP2B, CMYP2C, α-Actin-1 (ACTA1)
Clone:	ARC1913
Applications:	WB IF/ICC ELISA IF-P
Conjugation:	Unconjugated
Reactivity:	Human, Mouse, Rat

Antibody Data

Gene ID:	58
Uniprot:	AB_2862994
Host Species:	Rabbit
Purification:	Affinity purification
Observed MW:	42kDa
Calculated MW:	42kDa

Manufacturers Statement: This final kit system is assembled and quality-released by Assay Genie Limited.

Preparation & Storage

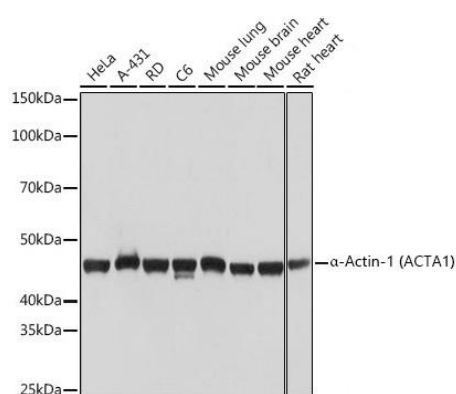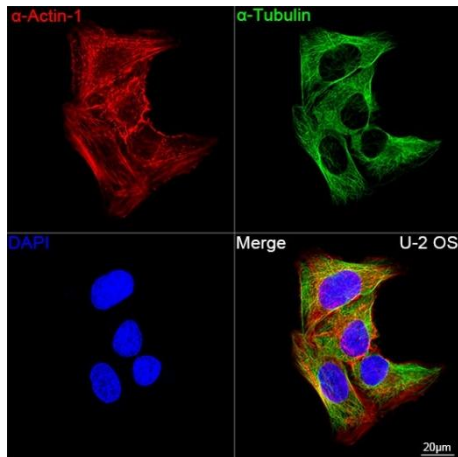|	
Storage:	Store at -20℃. Avoid freeze / thaw cycles. Buffer: PBS containing 50% glycerol and 0.05% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3. Store Bradford Reagent at Room Temperature for 1 Year.
Positive Sample:	HeLa, A-431, RD, C6, Mouse lung, Mouse brain, Mouse heart, Rat lung, Rat heart

Recommended Dilutions:

WB	1:1000 - 1:6000
IF/ICC	1:200 - 1:800
IF-P	1:200 - 1:800
ELISA	Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.

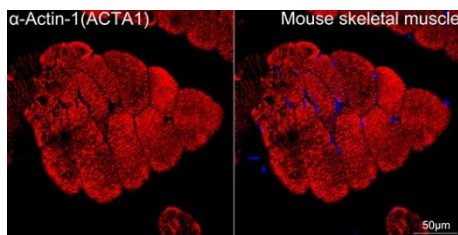|	
Protein Quantification (Optional):	To quantify total protein levels, use the Bradford Reagent included in this kit. Visit https://www.assaygenie.com/bradford-protein-assay-protocol/ to view the full protocol

Validation Data

Western blot analysis of various lysates using α-Actin-1 (ACTA1) Rabbit mAb (CAB2319) at 1:1000 dilution. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (CABS014) at 1:10000 dilution. Lysates/proteins: 25µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (AbGn00020). Exposure time: 1s.

Confocal imaging of U-2 OS cells using α-Actin-1 (ACTA1) Rabbit mAb (CAB2319, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (CABS007, dilution 1:500) (Red). The cells were counterstained with α-Tubulin Mouse mAb (CABC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) Ab (, dilution 1:500) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.

Confocal imaging of paraffin-embedded Mouse skeletal muscle tissue using α-Actin-1 (ACTA1) Rabbit mAb (CAB2319, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (CABS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 40x. Perform high pressure antigen retrieval with 0.01 M citrate buffer (pH 6.0) prior to IF staining.