

## a-actinin (4A12) Mouse mAb

CatalogNo: YM3612 **Orthogonal Validated** 

### | Key Features

#### Host Species

- Mouse

#### Reactivity

- Human, Mouse, Rat

#### Applications

- WB, IHC, IF

#### MW

- 103kD (Observed)

### | Storage

**Storage\*** -15°C to -25°C/1 year (Do not lower than -25°C)

**Formulation** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

### | Recommended Dilution Ratios

IHC 1:200-400

IF/ICC 1:200-400

WB 1:500-2000

### | Basic Information

**Clonality** Monoclonal

**Clone Number** 4A12

### | Immunogen Information

**Immunogen** Recombinant Protein of a-actinin of ACTN1

**Specificity** a-actinin Monoclonal Antibody(4A12) detects endogenous levels of ACTN1

## Target Information

**Gene name** ACTN1

**Protein Name** ACTN1

Organism	Gene ID	UniProt ID
Human	<a href="#">87;</a>	<a href="#">P12814;</a>
Mouse		<a href="#">Q7TPR4;</a>
Rat		<a href="#">Q9Z1P2;</a>

### Cellular Localization

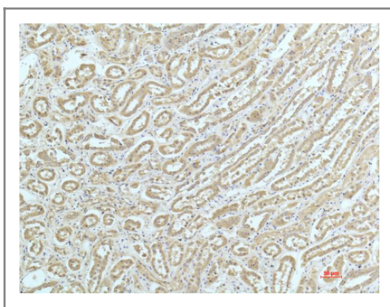
Cytoplasm, cytoskeleton . Cytoplasm, myofibril, sarcomere, Z line . Cell membrane . Cell junction . Cell projection, ruffle . Colocalizes with MYOZ2 and PPP3CA at the Z-line of heart and skeletal muscle. Colocalizes with PSD in membrane ruffles and central reticular structures. .

**Tissue specificity** Colon, Epithelium, Hepatocyte, Neuroblastoma, Placenta, Platelet, Skin, Tumor of tongue,

### Function

Function: F-actin cross-linking protein which is thought to anchor actin to a variety of intracellular structures. This is a bundling protein., similarity: Belongs to the alpha-actinin family., similarity: Contains 1 actin-binding domain., similarity: Contains 2 CH (calponin-homology) domains., similarity: Contains 2 EF-hand domains., similarity: Contains 4 spectrin repeats., subcellular location: Colocalizes with MYOZ2 and PPP3CA at the Z-line of heart and skeletal muscle., subunit: Homodimer; antiparallel. Interacts with DDN, MYOZ2, PDLIM2, TTID and LPP.,

## Validation Data



Immunohistochemical analysis of paraffin-embedded Human Kidney Tissue using  $\alpha$ -actinin Mouse mAb diluted at 1:200.

## Contact information

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Please scan the QR code to access additional product information:  
**a-actinin (4A12)**  
**Mouse mAb**

