

**ACTA2 Antibody**  
**Purified Mouse Monoclonal Antibody**  
**Catalog # AO1515a**

**Specification**

**ACTA2 Antibody - Product Information**

Application	E, WB, IHC
Primary Accession	<a href="#">P62736</a>
Reactivity	Human, Monkey
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Calculated MW	42kDa KDa

**Description**

Actin, alpha 2, smooth muscle, aorta, major constituent of thin filaments.

**Immunogen**

Purified recombinant fragment of human ACTA2 expressed in E. Coli.

**Formulation**

Ascitic fluid containing 0.03% sodium azide.

**ACTA2 Antibody - Additional Information**

**Gene ID** 59

**Other Names**

Actin, aortic smooth muscle, Alpha-actin-2, Cell growth-inhibiting gene 46 protein, ACTA2, ACTSA, ACTVS

**Dilution**

E~~1/10000  
WB~~1/500 - 1/2000  
IHC~~1/200 - 1/1000

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

ACTA2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**ACTA2 Antibody - Protein Information**

**Name** ACTA2

**Synonyms** ACTSA, ACTVS

### Function

Actins are highly conserved proteins that are involved in various types of cell motility and are ubiquitously expressed in all eukaryotic cells.

### Cellular Location

Cytoplasm, cytoskeleton.

### ACTA2 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

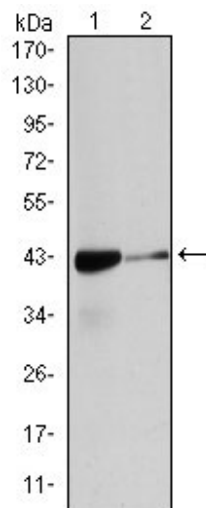
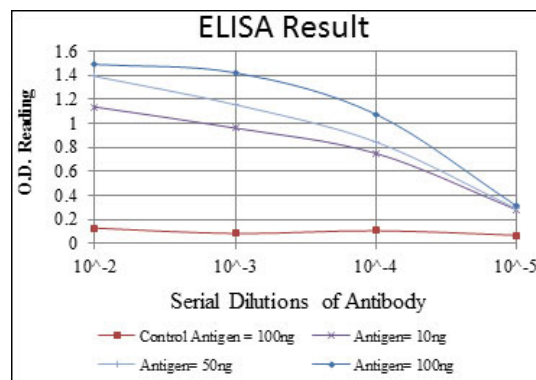


Figure 1: Western blot analysis using ACTA2 mouse mAb against HeLa (1), and Cos7 (2) cell lysate.

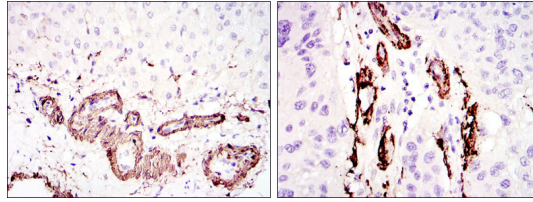


Figure 2: Immunohistochemical analysis of paraffin-embedded liver tissues (left) and lung cancer tissues (right) using ACTA2 mouse mAb with DAB staining.

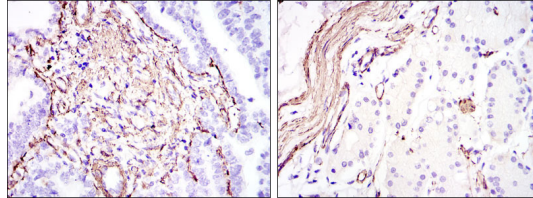


Figure 3: Immunohistochemical analysis of paraffin-embedded stomach cancer (left) and stomach tissues (right) using ACTA2 mouse mAb with DAB staining.

### ACTA2 Antibody - References

1. Nat Genet. 2007 Dec;39(12):1488-93.
2. Virchows Arch. 2007 Dec;451(6):999-1007.