

ACTA2 Antibody
Purified Mouse Monoclonal Antibody
Catalog # AO1514a**Specification****ACTA2 Antibody - Product Information**

Application	E, WB, IF, FC
Primary Accession	P62736
Reactivity	Human, Mouse, Rat, 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
IF~~1/200 - 1/1000
FC~~1/200 - 1/400

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](#)

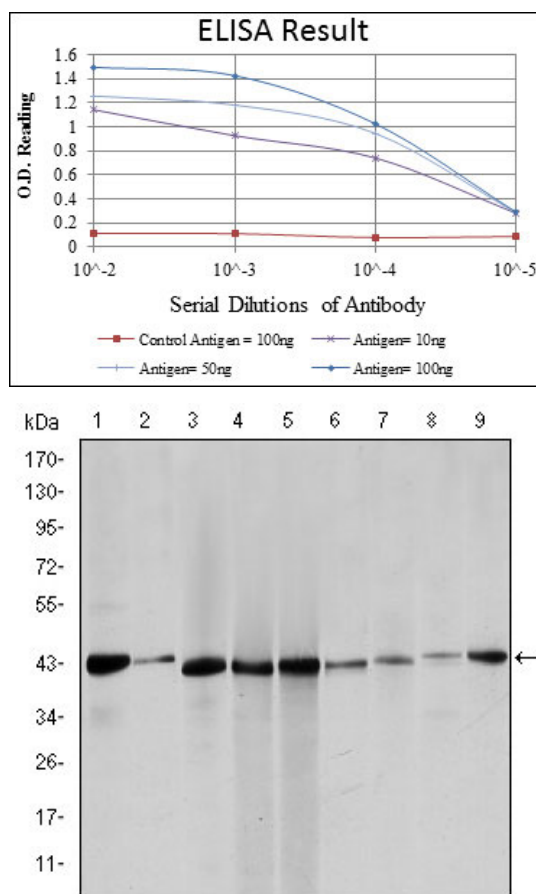


Figure 1: Western blot analysis using ACTA2 mouse mAb against Hela (1), Jurkta (2), HepG2 (3), MCF-7 (4), A431 (5), A549 (6), PC-12 (7), NIH/3T3 (8) and Cos7 (9) cell lysate.

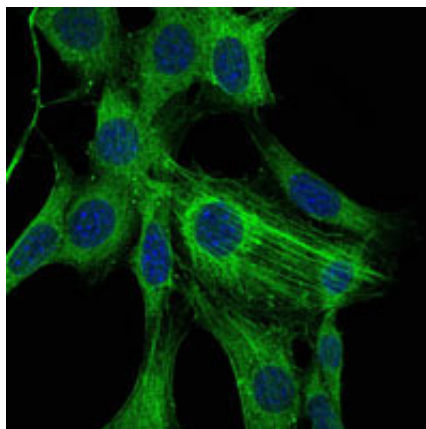


Figure 2: Immunofluorescence analysis of NIH/3T3 cells using ACTA2 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye.

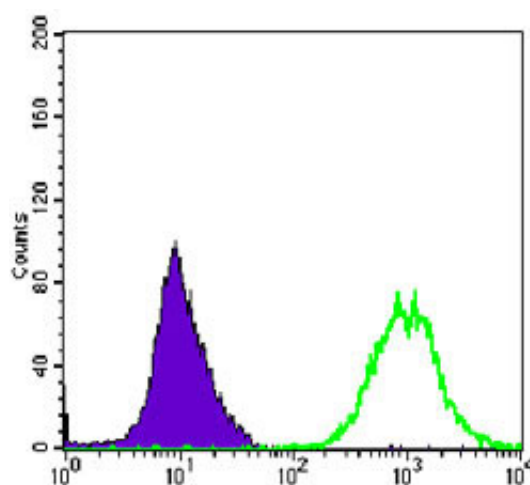


Figure 3: Flow cytometric analysis of Hela cells using ACTA2 mouse mAb (green) and negative control (purple).

ACTA2 Antibody - References

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