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ACTA2 Antibody

Purified Mouse Monoclonal Antibody
Catalog # AO1514a

Product Information

Application	WB, FC, ICC, E
Primary Accession	P62736
Reactivity	Human, Mouse, Rat, Monkey
Host	Mouse
Clonality	Monoclonal
Clone Names	1H8
Isotype	IgG1
Calculated MW	42009
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.

Additional Information

Gene ID	59
Other Names	Actin, aortic smooth muscle, Alpha-actin-2, Cell growth-inhibiting gene 46 protein, ACTA2, ACTSA, ACTVS
Dilution	WB~~1/500 - 1/2000 FC~~1/200 - 1/400 ICC~~N/A E~~1/10000
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.

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.

References

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

Images

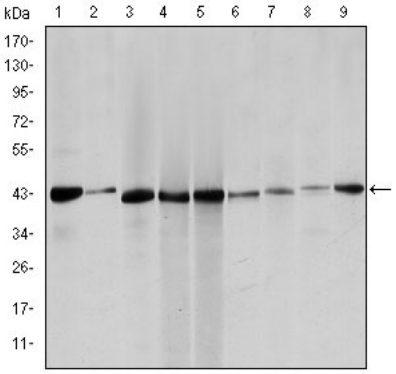

Figure 1: Western blot analysis using ACTA2 mouse mAb against Hela (1), Jurkta (2), HepG2 (3), MCF-7 (4), A431 (5), A549 (6), PC-12 (7), NIH/3T3 (8) and Cos7 (9) cell lysate.

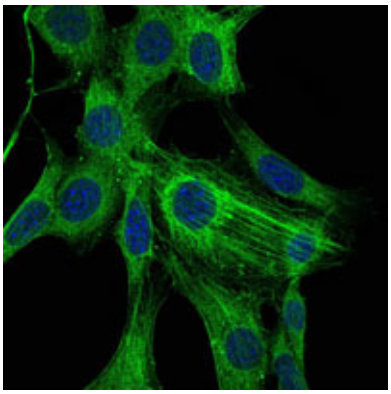

Figure 2: Immunofluorescence analysis of NIH/3T3 cells using ACTA2 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye.

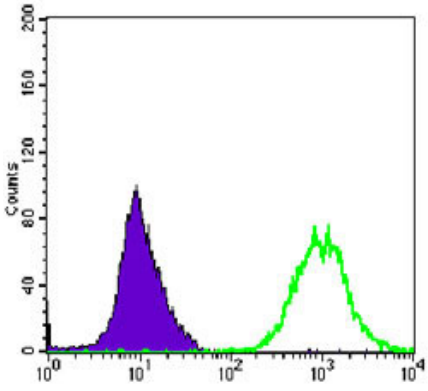

Figure 3: Flow cytometric analysis of Hela cells using ACTA2 mouse mAb (green) and negative control (purple).