

α -SMA Monoclonal Antibody

Catalog No	YP-mAb-03223	
Isotype	IgG	
Reactivity	Human;Mouse;Rat	
Applications	WB	
Gene Name	ACTA1/ACTA2/ACTC1	
Protein Name	Actin alpha skeletal muscle/Actin aortic smooth muscle/Actin alpha cardiac muscle 1	
Immunogen	Synthesized peptide derived from the C-terminal region of human $^{\alpha}$ -SMA.	
Specificity	α -SMA Monoclonal Antibody detects endogenous levels of $\ \alpha$ -SMA protein.	
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.	
Source	Monoclonal, Mouse,IgG	
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.	
Dilution	WB 1:500-1:2000	
Concentration	1 mg/ml	
Purity	≥90%	
Storage Stability	-20°C/1 year	
Synonyms	ACTA1; ACTA; Actin, alpha skeletal muscle; Alpha-actin-1; ACTA2; ACTSA; ACTVS; GIG46; Actin, aortic smooth muscle; Alpha-actin-2; Cell growth-inhibiting gene 46 protein; ACTC1; ACTC; Actin, alpha cardiac muscle 1; Alpha-cardiac actinACTA1; ACTA; Actin, alpha skeletal muscle; Alpha-actin-1; ACTA2; ACTSA; ACTVS; GIG46; Actin, aortic smooth muscle; Alpha-actin-2; Cell growth-inhibiting gene 46 protein; ACTC1; ACTC; Actin, alpha cardiac muscle 1; Alpha-cardiac actin	
Observed Band	42kD	
Cell Pathway	Cytoplasm, cytoskeleton.	
Tissue Specificity	Epithelium,Skeletal muscle,	
Function	disease:Defects in ACTA1 are a cause of congenital myopathy with excess of thin myofilaments (CM) [MIM:102610].,disease:Defects in ACTA1 are a cause of congenital myopathy with fiber-type disproportion (CFTD) [MIM:255310]; also known as congenital fiber-type disproportion myopathy (CFTDM). CFTD is a genetically heterogeneous disorder in which there is relative hypotrophy of type 1 muscle fibers compared to type 2 fibers on skeletal muscle biopsy. However, these findings are not specific and can be found in many different myopathic and	



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neuropathic conditions.,disease:Defects in ACTA1 are the cau myopathy type 3 (NEM3) [MIM:161800]. Nemaline myopathy (congenital myopathy characterized by abnormal thread- or roo muscle fibers on histologic examination. The clinical phenotyp with differing age at onset and severity.,func	NEM) is a form of I-like structures in
The product encoded by this gene belongs to the actin family are highly conserved proteins that play a role in cell motility, st	ructure and

integrity. Alpha, beta and gamma actin isoforms have been identified, with alpha actins being a major constituent of the contractile apparatus, while beta and gamma actins are involved in the regulation of cell motility. This actin is an alpha actin that is found in skeletal muscle. Mutations in this gene cause nemaline myopathy type 3, congenital myopathy with excess of thin myofilaments, congenital myopathy with cores, and congenital myopathy with fiber-type disproportion, diseases that lead to muscle fiber defects. [provided by RefSeq, Jul 2008] 2008],

matters needing attention

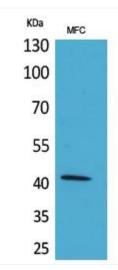
Background

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.





Western Blot analysis of various cells using a -SMA Monoclonal Antibody