α-Smooth Muscle Actin (1A4) Mouse mAb (IF Formulated)



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Applications: WB, IP, IF-F	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 42	Source/Isotype: Mouse IgG2a	UniProt ID: #P62736	Entrez-Gene Id: 59	
Product Usage Information	Ap	plication			Dilution		
	We	estern Blotting			1:1000		
	Imi	munoprecipitation		1:200			
	Imi	munofluorescence (Frozen)	1:100 - 1:400			
Storage	•	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.					
Specificity / Sensitiv		$\alpha\textsc{-Smooth}$ Muscle Actin (1A4) Mouse mAb (IF Formulated) recognizes endogenous levels of total $\alpha\textsc{-smooth}$ muscle actin protein					
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human α -smooth muscle actin protein.					
Background	hav as t The resp mus aort	Actin proteins are major components of the eukaryotic cytoskeleton. At least six vertebrate actin isoforms have been identified. The cytoplasmic β - and γ -actin proteins are referred to as "non-muscle" actin proteins as they are predominantly expressed in non-muscle cells where they control cell structure and motility (1). The α -cardiac and α -skeletal actin proteins are expressed in striated cardiac and skeletal muscles, respectively. The smooth muscle α -actin and γ -actin proteins are found primarily in vascular smooth muscle and enteric smooth muscle, respectively. The α -smooth muscle actin (ACTA2) is also known as aortic smooth muscle actin. These actin isoforms regulate the contractile potential of muscle cells (1).					
Background Refere	nces 1. H	lerman, I.M. (1993)	Curr Opin Cell Bi	0/ 5, 48-55.			
Species Reactivity	Spec	Species reactivity is determined by testing in at least one approved application (e.g., western blot).				estern blot).	
Western Blot Buffer		IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.					
Applications Key	WB	: Western Blotting II	P: Immunoprecipi	itation IF-F: Immunofluo	rescence (Frozen)		
Cross-Reactivity Key H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melar X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected						· ·	
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