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Patents

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



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Applications: WB, IP, IHC-P	Reactivity: H M R Hm	Sensitivity: Endogenous	MW (kDa): 42	Source/Isotype: Mouse IgG2a	UniProt ID: #P62736	Entrez-Gene ld 59	
Product Usage Information	Ap	Application			Dilution		
	We	Western Blotting				1:1000	
	lmı	Immunoprecipitation				1:100	
	lmı	munohistochemistry	(Paraffin)	1:250			
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.					
	For	For a carrier-free (BSA and azide free) version of this product see product #69319.					
Specificity / Sensitivity		$\alpha\textsc{-Smooth}$ Muscle Actin (1A4) Mouse mAb (IHC 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 protein.					
Background	hav as ti The resp mus	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 at 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 Refe	rences 1. H	1. Herman, I.M. (1993) Curr Opin Cell Biol 5, 48-55.					

Species reactivity is determined by testing in at least one approved application (e.g., western blot). Species Reactivity

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, Western Blot Buffer

0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key WB: Western Blotting IP: Immunoprecipitation IHC-P: Immunohistochemistry (Paraffin)

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster **Cross-Reactivity Key**

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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