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 $\alpha\text{-Smooth}$ Muscle Actin (1A4) Mouse mAb (Alexa Fluor $^{\texttt{®}}$ 488

Applications: IF-F	Reactivity: H M R Hm	Sensitivity: Endogenous	Source/Isotype: Mouse IgG2a	UniProt ID: #P62736	Entrez-Gene Id: 59	
Product Usage Information	•	plication munofluorescence	(Frozen)	Dilution 1:50 - 1:200		
Storage	Sup	Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml Bs antibody. Protect from light. Do not freeze.			o not aliquot the	
Specificity / Sensi		α -Smooth Muscle Actin (1A4) Mouse mAb (Alexa Fluor [®] 488 Conjugate) recognizes endogenous levels of total α -smooth muscle actin protein.				
Source / Purificati		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human α -smooth muscle protein.				
Product Description	hous	This Cell Signaling Technology antibody is conjugated to Alexa Fluor [®] 488 fluorescent dye and tested inhouse for direct immuno fluorescence analysis in human cells. This antibody is expected to exhibit the same species cross-reactivity as the unconjugated α -Smooth Muscle Actin (1A4) Mouse mAb #56856.				
Background Background Refer	have as ti 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). 1. Herman, I.M. (1993) <i>Curr Opin Cell Biol</i> 5, 48-55.				
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Species Reactivity	/ Spec	ies reactivity is det	ermined by testing in at least	one approved application (e.g., weste	ern blot).	
Applications Key	IF-F	: Immunofluoresce	nce (Frozen)			
Cross-Reactivity F	X: X6	 H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster 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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