α-Smooth Muscle Actin (D4K9N) XP[®] Rabbit mAb (Alexa Fluor[®] 594 Conjugate)



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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity: H M R Hm Mk	Sensitivity: Endogenous	Source/Isotype: Rabbit IgG	UniProt ID: #P62736	Entrez-Gene Id: 59
Product Usage Information		Application Immunofluorescence (F	<u> </u>		Dilution 1:50
Storage		Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4°C. Do not aliquot the antibody. Protect from light. Do not freeze.			
Specificity/Sensitivity		α -Smooth Muscle Actin (D4K9N) XP $^{\$}$ Rabbit mAb (Alexa Fluor $^{\$}$ 594 Conjugate) recognizes endogenous levels of total α -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.			
Description		This Cell Signaling Technology antibody is conjugated to Alexa Fluor [®] 594 fluorescent dye and tested in-house for direct immunofluorescent analysis in mouse tissue. This antibody is expected to exhibit the same species cross-reactivity as the unconjugated α -Smooth Muscle Actin (D4K9N) XP [®] Rabbit mAb #19245.			
Background		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 References		1. Herman, I.M. (1993) <i>Curr Opin Cell Biol</i> 5, 48-55.			
Species Reactivi	ty	Species reactivity is dete	rmined by testing in at le	ast one approved ap	plication (e.g., western blot).

Applications Key

IF-F: Immunofluorescence (Frozen)

Cross-Reactivity Key

H: Human M: Mouse R: Rat Hm: Hamster Mk: Monkey

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