e at +4C	α-Smooth Muscle Actin (D4K9N) XP <sup>®</sup> orowser Rabbit mAb (Alexa Fluor <sup>®</sup> 488 Conjugate)		Cell Signaling				
Store		Orders	: 877-616-CELL (2355) orders@cellsignal.com				
)5		Suppor	rt: 877-678-TECH (8324)				
#34105		Web:	info@cellsignal.com cellsignal.com				
#3		3 Trask Lane   Danvers	Massachusetts   01923   USA				
	For Research Use Only. Not for Use in Diagnostic Procedures.						

Applications: IHC-P, IF-F	<b>Reactivity:</b> H M R Hm Mk	<b>Sensitivity:</b> Endogenous	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #P62736	<b>Entrez-Gene Id:</b> 59		
Product Usage Information		<b>Application</b> Immunohistochemistry Immunofluorescence (Fi			<b>Dilution</b> 1:50 - 1:200 1:50 - 1:100		
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 <sup>®</sup> Rabbit mAb (Alexa Fluor <sup>®</sup> 488 Conjugate) recognizes endogenous levels of total α-smooth muscle protein.					
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human $\alpha$ -smooth muscle actin protein.					
Description		This Cell Signaling Technology antibody is conjugated to Alexa Fluor <sup>®</sup> 488 fluorescent dye and tested in-house for direct immunofluorescent analysis in human cells. This antibody is expected to exhibit the same species cross-reactivity as the unconjugated α-Smooth Muscle Actin (D4K9N) XP <sup>®</sup> Rabbit mAb #19245.					
Background Background References		Actin proteins are major components of the eukaryotic cytoskeleton. At least six vertebrate actin isoforms have been identified. The cytoplasmic $\beta$ - and $\gamma$ -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 $\alpha$ -cardiac and $\alpha$ -skeletal actin proteins are expressed in striated cardiac and skeletal muscles, respectively. The smooth muscle $\alpha$ -actin and $\gamma$ -actin proteins are found primarily in vascular smooth muscle and enteric smooth muscle, respectively. The $\alpha$ -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.					
Species Reactiv	vity	Species reactivity is dete	rmined by testing in at le	ast one approved ap	oplication (e.g., western blot).		
Applications Key		IHC-P: Immunohistochemistry (Paraffin) IF-F: Immunofluorescence (Frozen)					
Cross-Reactivity Key		H: Human M: Mouse R: Rat Hm: Hamster Mk: Monkey					
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