Store at +4C

6113

## α-Smooth Muscle Actin (D4K9N) XP<sup>®</sup> Rabbit mAb (Alexa Fluor<sup>®</sup> 647 Conjugate)



Orders:	877-616-CELL (2355) orders@cellsignal.com
Support:	877-678-TECH (8324)
Web:	info@cellsignal.com cellsignal.com

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 (Paraffin) Immunofluorescence (Frozen)			<b>Dilution</b> 1:50 - 1:200 1:50		
Storage		Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4°C. <i>Do not aliquot the antibody. Protect from light. Do not freeze.</i>					
Specificity/Sensitivity		α-Smooth Muscle Actin (D4K9N) XP <sup>®</sup> Rabbit mAb (Alexa Fluor <sup>®</sup> 647 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 $\alpha$ -smooth muscle actin protein.					
Description		This Cell Signaling Technology antibody is conjugated to Alexa Fluor <sup>®</sup> 647 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 <sup>®</sup> Rabbit mAb #19245.					
Background		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).					
Background Re	ferences	1. Herman, I.M. (1993) <i>Curr Opin Cell Biol</i> 5, 48-55.					
Species Reactiv	ity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).					
Applications Ke	y.	IHC-P: Immunohistochemistry (Paraffin) I		Immunofluorescence (Frozen)			
Cross-Reactivit	у Кеу	H: Human M: Mouse R: Rat Hm: Hamster Mk: Monkey					
Trademarks an	d Patents	Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.			Inc.		
		XP is a registered trademark of Cell Signaling Technology, Inc.					
		transfer of this product is conducted by the buyer, must not (1) use this pro purposes; (b) testing, and per-test basis; or (c) man this product or its compo purchasing a license to t	s conditioned on the buy excluding contract resea duct or its components fo alysis or screening servic ufacturing or quality ass onents for resale, whethe his product for purposes	er using the purchas rch or any fee for ser or (a) diagnostic, the es, or information in urance or quality cor or not resold for us other than as descri	return for compensation on a htrol, and/or (2) sell or transfer se in research. For information on		
		All other trademarks are the property of their respective owners. Visit cellsignal.com/tradema more information.					
Limited Uses		Except as otherwise expressly agreed in a writing signed by a legally authorized representative of CS the following terms apply to Products provided by CST, its affiliates or its distributors. Any Customer's					

terms and conditions that are in addition to, or different from, those contained herein, unless separately accepted in writing by a legally authorized representative of CST, are rejected and are of no force or effect.

Products are labeled with For Research Use Only or a similar labeling statement and have not been approved, cleared, or licensed by the FDA or other regulatory foreign or domestic entity, for any purpose. Customer shall not use any Product for any diagnostic or therapeutic purpose, or otherwise in any manner that conflicts with its labeling statement. Products sold or licensed by CST are provided for Customer as the end-user and solely for research and development uses. Any use of Product for diagnostic, prophylactic or therapeutic purposes, or any purchase of Product for resale (alone or as a component) or other commercial purpose, requires a separate license from CST. Customer shall (a) not sell, license, loan, donate or otherwise transfer or make available any Product to any third party, whether alone or in combination with other materials, or use the Products to manufacture any commercial products, (b) not copy, modify, reverse engineer, decompile, disassemble or otherwise attempt to discover the underlying structure or technology of the Products, or use the Products for the purpose of developing any products or services that would compete with CST products or services, (c) not alter or remove from the Products any trademarks, trade names, logos, patent or copyright notices or markings, (d) use the Products solely in accordance with CST Product Terms of Sale and any applicable documentation, and (e) comply with any license, terms of service or similar agreement with respect to any third party products or services used by Customer in connection with the Products.