#14968 Store at -20C

## α-Smooth Muscle Actin Antibody



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

Applications: WB	Reactivity: H M R	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 42	Source: Rabbit	<b>UniProt ID:</b> #P62736	Entrez-Gene Id: 59	
Product Usage Information	Ap	Application			Dilution		
	We	stern Blotting			1:1000		
Storage	•	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA and 50% glycerol. Store at $-$ 20°C. Do not aliquot the antibody.					
Specificity / Sensitivity α-Smooth Muscle Actin Antibody rec			Antibody recognize	nizes endogenous levels of total $\alpha\text{-smooth}$ muscle actin protein.			
Source / Purificati	resid	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human $\alpha$ -smooth muscle actin protein. Antibodies are purified by protein A and peptide affinity chromatography.					
Background	have as tl The resp mus	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 Refer	ences 1. H	1. Herman, I.M. (1993) Curr Opin Cell Biol 5, 48-55.					

**Species Reactivity** 

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

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

WB: Western Blotting

**Cross-Reactivity Key** 

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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