Applications:	Reactivity:	Sensitivity:	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
For Research Use Or	nly. Not for Use in	Diagnostic Pro	cedures.		
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	(13E5) Rabl 94 Conjuga	oit mAD (A lite)	Alexa	Т	ell Signaling
ບ ຊີβ-Actin (• :+ ··· A la //			oll Signaling

Applications: IF-IC	Reactivity: H M R Mk B Pg	Sensitivity: Endogenous	Source/Isotype: Rabbit IgG	UniProt ID: #P60709	Entrez-Gene Id: 60		
Product Usage Information		Dlication nunofluorescence	(Immunocytochemistry)		Dilution 1:100 - 1:400		
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 / Sens	prote	β -Actin (13E5) Rabbit mAb (Alexa Fluor [®] 594 Conjugate) detects endogenous levels of total β -actin protein. Depsite the high sequence identity between the cytoplasmic actin isoforms, β -actin and cytoplasmic γ -actin, β -Actin (13E5) Rabbit mAb (Alexa Fluor [®] 594 Conjugate) #9470 does not cross-react with cytoplasmic γ -actin, or any other actin isoforms.					
Species predicte react based on 10 sequence homole	00%	ster, Chicken, Do	g, Horse, Rabbit				
Source / Purificat		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human β -actin protein.					
Product Descript	hous	This Cell Signaling Technology antibody is conjugated to Alexa Fluor [®] 594 fluorescent dye and tested inhouse for immunofluorescent analysis in monkey cells. This antibody is expected to exhibit the same species cross-reactivity as the unconjugated β -Actin (13E5) Rabbit mAb #4970.					
Background	know expre cytop this r skele actin respe as a cytok resul fragn hype obse	n in mammals. N essed, controlling plasmic β- and γ-a eason, antibodies etal actin are expre- s, α- and γ-actin, a ectively. These ac fibrous polymer, F kinesis, endocytos ting in an increase nents and promoti rphosphorylated i rved <i>in vitro</i> and in	onmuscle β - and y-actin, also k cell structure and motility (1). V actin protein sequences differ by s raised to β -actin may cross-re- essed in striated cardiac and sk are found primarily in vascular s- tin isoforms regulate the contra F-actin. In response to cytoskele sis, or stress, cofilin promotes fr e in the monomeric globular for es formation of new actin filame n primary breast tumors (4). Cle	mponent of the cytoskeleton. At lea nown as cytoplasmic actin, are ub Vhile all actin isoforms are highly h y only four biochemically similar ar act with γ -actin, and vice versa. α - celetal muscles, respectively; two s smooth muscle and enteric smooth ctile potential of muscle cells (1). A etal reorganizing signals during pro agmentation and depolymerization m, G-actin (3). The ARP2/3 completents (3). Research studies have she eavage of actin under apoptotic co as shown in research studies (5-7) endent muscle proteolysis (7).	iquitously nomologous, nino acids (2). For cardiac and α- smooth muscle n muscle, Actin exists mainly pocesses such as n of F-actin, ex stabilizes F-actin nown that actin is inditions has been		
			993) Curr. Opin. Cell Biol. 5, 48-55. 04) J Clin Invest 113, 115-23.				
Species Reactivit	t y Speci	es reactivity is def	termined by testing in at least o	ne approved application (e.g., wes	stern blot).		
Applications Key	IF-IC	: Immunofluoresc	ence (Immunocytochemistry)				
Cross-Reactivity	X: Xe	 H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogasi X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse CP: Cuinae Pig Pab: rabbit All species expected 					

GP: Guinea Pig Rab: rabbit All: all species expected

1/14/24, 11:33 AM	β-Actin (13E5) Rabbit mAb (Alexa Fluor® 594 Conjugate) (#9470) Datasheet Without Images Cell Signali
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