

α-Actinin (E7U1O) Mouse mAb



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Applications: W, IP, IF-IC	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 100	Source/Isotype: Mouse IgG1	UniProt ID: #P12814	Entrez-Gene Id 87
Product Usage Information		Application Western Blotting Immunoprecipitation Immunofluorescence	(Immunocytochen	nistry)	1 1	Dilution 1:1000 1:100 1:50 - 1:200
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		lpha-Actinin (E7U1O) Mouse mAb recognizes endogenous levels of total $lpha$ -Actinin protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human α -Actinin-1 protein.				
Background		cross-linking protein, f terminus of each mon signaling to the cytosk targeting (1). The inter promote neurite outgr adhesions and may pr ACTN4) are non-muscl contacts, filopodia, an	forming an antipar omer. The α-actining teleton, including traction of α-actinin rowth (2). In osteoletect cells from ap le proteins that ared lamellipodia. The	of cytoskeletal proteins. I allel homodimer with an a protein interacts with a hose involved in cellular with intercellular adhes plasts, interaction of α-ac optosis (3). The cytoskel present in stress fibers, a muscle isoforms 2 and dies and plaques in smooth	actin binding head large number of μ adhesion, migration ion molecule-5 (ICA ctinin with integrina etal α-actinin isofor sites of adhesion a 3 (ACTN2, ACTN3) l	d at the amino proteins involved in on, and immune cell AM-5) helps to s stabilizes focal rms 1 and 4 (ACTN1, and intercellular
Background References		1. Otey, C.A. and Carpen, O. (2004) <i>Cell Motil Cytoskeleton</i> 58, 104-11. 2. Nyman-Huttunen, H. et al. (2006) <i>J Cell Sci</i> 119, 3057-66. 3. Triplett, J.W. and Pavalko, F.M. (2006) <i>Am J Physiol Cell Physiol</i> 291, C909-21.				
Species Reactiv	ity	Species reactivity is de	termined by testin	g in at least one approve	ed application (e.g.	, western blot).
Western Blot Buffer		IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.				
Applications Key		W: Western Blotting IP: Immunoprecipitation IF-IC: Immunofluorescence (Immunocytochemistry)				
Cross-Reactivity Key		H: Human M: Mouse R: Rat Mk: Monkey				
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