

#3279 Store at -20°C

Shootin1 Antibody



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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source:	UniProt ID:	Entrez-Gene Id:
WB, IP	H M R	Endogenous	60	Rabbit	#A0MZ66	57698

Product Usage Information	Application	Dilution
	Western Blotting	1:1000
	Immunoprecipitation	1:100
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at –20°C. Do not aliquot the antibody.	
Specificity / Sensitivity	Shootin1 Antibody detects endogenous levels of total shootin1 protein.	
Source / Purification	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide surrounding Lys450 of human shootin1. Antibodies are purified by peptide affinity chromatography.	
Background	<p>The differentiation process of neurons can be divided into five stages, each stage characterized by morphological changes observed in the developing cells. In stage 1, the cells extend lamellipodia and in stage 2 their lamellipodia develop into immature neurites. In stage 3 one neurite elongates rapidly to form an axon and in stage 4 the remaining immature neuritis elongate to form dendrites. In stage 5 synaptic contacts are formed and a neuronal network is established (1).</p> <p>Shootin1 is involved in generating internal asymmetric signals required for neuronal during stages 2 and 3. The extension of an axon requires considerable reorganization of the cytoskeleton mediated by PI3K/Akt and PI3K/Cdc42 signaling (1). Shootin1 is involved in regulating the subcellular localization of PI3 kinase. Furthermore, shootin1 is upregulated during polarization and accumulates asymmetrically in a single neurite that consequently elongates rapidly to form an axon (2).</p>	
Background References	<p>1. Yoshimura, T. et al. (2006) <i>J Neurosci</i> 26, 10626-30.</p> <p>2. Toriyama, M. et al. (2006) <i>J Cell Biol</i> 175, 147-57.</p>	

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 IP: Immunoprecipitation
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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