e at -20C	Mena Antibody		Cell Signaling	
Store at		Orders:	877-616-CELL (2355) orders@cellsignal.com	
75		Support:	877-678-TECH (8324)	
#2075		Web:	info@cellsignal.com cellsignal.com	
#		3 Trask Lane Danvers Ma	ssachusetts 01923 USA	

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

Applications: WB	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 80, 88, 140	Source: Rabbit	UniProt ID: #Q8N8S7	Entrez-Gene Id 55740			
Product Usage Information		Application Western Blotting		Dilution 1:1000					
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Stor 20°C. Do not aliquot the antibody.							
Specificity / Sensitivity		Mena Antibody detects endogenous levels of total Mena protein.							
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide of human Mena. Antibodies are purified by protein A and peptide affinity chromatography.							
Background		Mena, EVL, and VASP are all members of the Ena/VASP family, which is involved in controlling cell shape and cell movement by shielding actin filaments from capping proteins (1). Ena/VASP proteins have three distinct domains: an amino-terminal EVH1 domain controlling protein localization; a central proline-rich domain mediating interactions with SH3 and WW domain containing proteins, including profilin; and a carboxy-terminal domain that promotes tetramerization and actin binding (2). Mena (known also as ENAH, or Protein enabled homolog), interacts with actin filaments at the growing ends and is thus localized to lamellipodia and the tips of neuronal growth cone filopodia. Axons projecting from interhemispheric cortico- cortical neurons were shown to be misrouted in newborn, homozygous Mena knockout mice (3). Mena may be phosphorylated at Ser236 by PKA, a posttranslational modification that is reported to promote filopodial formation and elongation of the growth cone (4). Three forms of the Mena protein, with apparent molecular weights of 80, 88 and 140 kDa, have been described. The 80 kDa isoform is broadly expressed, whereas the 140 kDa isoform is reportedly enriched in neural cell types; these isoforms are generated by alternative splicing. The 88 kDa isoform is expressed primarily in embryonic cells and is likely the result of posttranslational modification of the 80 kDa isoform. Expression of all three forms is completely eliminated after homozygous deletion of <i>ENAH</i> , the gene encoding the Mena protein (1,3).							
Background Refere	2. 3.	Gertler, F.B. et al. (19 Small, J.V. (2008) <i>Na</i> Lanier, L.M. et al. (19 Lebrand, C. et al. (20	at Cell Biol 10, 118- 999) Neuron 22, 313	20. 3-25.					
Species Reactivity	Spe	ecies reactivity is det	ermined by testing i	n at least one appro	oved application (e.g., w	estern blot).			
Western Blot Buffer		PORTANT: For weste % Tween® 20 at 4°C		nembrane with diluted primary antibody in 5% w/v BSA, 1X TBS, g, overnight.					
Applications Key	w	B: Western Blotting							
Cross-Reactivity Key			n B: bovine Dg: dog	Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster og Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse as expected					
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Mena Antibody (#2075) Datasheet Without Images Cell Signaling Technology

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