e at -20C	Mena (D33C1) Rabbit mAb		Cell Signaling	
Store		Orders:	877-616-CELL (2355) orders@cellsignal.com	
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## For Research Use Only. Not for Use in Diagnostic Procedures.

Product Usage InformationApplicationDilutionWestern Blotting1:1000Immunoprecipitation1:50	
<b>Storage</b> Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and le 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.	ess than
Specificity / Sensitivity Mena (D33C1) Rabbit mAb recognizes endogenous levels of total Mena protein.	
<b>Source / Purification</b> Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding residues surrounding Gly547 of human Mena protein.	to
<ul> <li>Background</li> <li>Mena, EVL, and VASP are all members of the Ena/VASP family, which is involved in controlling of and cell movement by shielding actin filaments from capping proteins (1). Ena/VASP proteins had distinct domains: an amino-terminal EVH1 domain controlling protein localization; a central proling domain mediating interactions with SH3 and WW domain containing proteins, including profilin; a carboxy-terminal domain that promotes tetramerization and actin binding (2). Mena (known also or Protein enabled homolog), interacts with actin filaments at the growing ends and is thus localit lamellipodia and the tips of neuronal growth cone filopodia. Axons projecting from interhemisphe cortical neurons were shown to be misrouted in newborn, homozygous Mena knockout mice (3). may be phosphorylated at Ser236 by PKA, a posttranslational modification that is reported to profilopodial formation and elongation of the growth cone (4). Three forms of the Mena protein, with molecular weights of 80, 88 and 140 kDa, have been described. The 80 kDa isoform is broadly or whereas the 140 kDa isoform is reportedly enriched in neural cell types; these isoforms are gene alternative splicing. The 88 kDa isoform is expressed primarily in embryonic cells and is likely the posttranslational modification of the 80 kDa isoform. Expression of all three forms is completely or after homozygous deletion of <i>ENAH</i>, the gene encoding the Mena protein (1,3).</li> <li>Background References</li> <li>Gertler, F.B. et al. (1996) <i>Cell</i> 87, 227-39.</li> <li>Small, J.V. (2008) <i>Nat Cell Biol</i> 10, 118-20.</li> <li>Lanier, L.M. et al. (2004) <i>Neuron</i> 42, 37-49.</li> </ul>	we three ne-rich and a as ENAH, zed to wric cortico- Mena omote apparent expressed, erated by e result of
<b>Species Reactivity</b> 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 non- milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.	fat dry
Applications Key WB: Western Blotting IP: Immunoprecipitation	
Cross-Reactivity KeyH: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. mela 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	anogaster
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