

CASK (D24B12) Rabbit mAb

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Applications: W, IP	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 105	Source/Isotype: Rabbit IgG	UniProt ID: #O14936	Entrez-Gene Id: 8573
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Product Usage Information	Application Western Blotting Immunoprecipitation	Dilution 1:1000 1:50
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.	
Specificity/Sensitivity	CASK (D24B12) Rabbit mAb recognizes endogenous levels of total CASK protein.	
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Glu327 of human CASK protein.	
Background	CASK is an adaptor protein with a calcium/calmodulin-dependent protein kinase domain, an SH3 domain, a guanylate kinase homology domain (GUK), and a PDZ domain. CASK links transmembrane proteins to the cytoskeleton and signaling molecules. In particular, CASK binds to neuroligin to stabilize pre- and post-synaptic structures (1). While most CASK protein (~80%) is cytoplasmic, a portion of the protein enters the nucleus, where it acts as a transcriptional coactivator (2). Transgenic mice with CASK insertional mutations die within 24 hours of birth (3).	
Background References	<ol style="list-style-type: none"> 1. Hata, Y. et al. (1996) <i>J Neurosci</i> 16, 2488-94. 2. Hsueh, Y.P. et al. (2000) <i>Nature</i> 404, 298-302. 3. Laverty, H.G. and Wilson, J.B. (1998) <i>Genomics</i> 53, 29-41. 	

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	W: Western Blotting IP: Immunoprecipitation
Cross-Reactivity Key	H: Human M: Mouse R: Rat
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