

#2878 Store at -20°C

CASK 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	H M R	Endogenous	105	Rabbit	#O14936	8573

Product Usage Information	Application	Dilution
	Western Blotting	1:1000
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	CASK Antibody detects endogenous levels of total CASK protein.	
Source / Purification	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to the amino-terminus of CASK. Antibodies are purified by protein A and peptide affinity chromatography.	
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	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. Lavery, 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	WB: Western Blotting
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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