



Orders: 877-616-CELL (2355)
orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com
cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

Store at -20C
#8096

CASK (D14E3) Rabbit mAb

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

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|---------------------------|-----------------------------|-----------------------------------|-------------------------|--------------------------------------|-------------------------------|--------------------------------|
| Applications: W | 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 | Dilution 1:1000 |
| 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 (D14E3) Rabbit mAb recognizes endogenous levels of total CASK protein. This antibody also detects a background band of unknown origin at 75 kDa. | |
| Source / Purification | Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly233 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 neurexin 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 | |
| Cross-Reactivity Key | H: Human M: Mouse R: Rat | |
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