

#2878 Store at -20°C

CASK Antibody

100 µl
(10 western blots)



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This product is intended for research purposes only. This product is not intended to be used for therapeutic or diagnostic purposes in humans or animals.

Entrez-Gene ID #8573
Swiss-Prot Acc. #O14936

Applications	Species Cross-Reactivity*	Molecular Wt.	Source
W Endogenous	H, M, R	105 kDa	Rabbit**

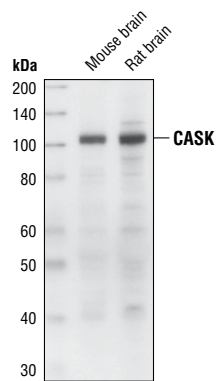
Background: CASK is an adaptor protein with a calcium/calmodulin-dependent protein kinase domain, a SH3 domain, a guanylate kinase homology domain (GUK) and a PDZ domain. CASK links transmembrane proteins to the cytoskeleton and signaling molecules. In particular, CASK binds to Neurexin to stabilize pre- and post-synaptic structures (1). While most of CASK proteins (~80%) are cytoplasmic, a portion of the protein enters the nucleus, where it acts as a transcriptional coactivator (2). Manifesting the importance of CASK, transgenic mice with insertional mutations die within 24 hours of birth (3).

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 References:

- (1) Hata, Y. et al. (1996) *J Neurosci.* 16, 2488–2494.
- (2) Hsueh, Y.P. et al. (2000) *Nature* 404, 298–302.
- (3) Lavery, H.G. and Wilson, J.B. (1998) *Genomics* 53, 29–41.



Western blot analysis of extracts from mouse and rat brain, using CASK Antibody.

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.

***Species cross-reactivity is determined by western blot.**

****Anti-rabbit secondary antibodies must be used to detect this antibody.**

Recommended Antibody Dilutions:

Western blotting 1:1000

For application specific protocols please see the web page for this product at www.cellsignal.com.

Please visit www.cellsignal.com for a complete listing of recommended companion products.

IMPORTANT: For western blots, incubate membrane with diluted antibody in 5% w/v BSA, 1X TBS, 0.1% Tween-20 at 4°C with gentle shaking, overnight.

Applications Key: W—Western IP—Immunoprecipitation IHC—Immunohistochemistry ChIP—Chromatin Immunoprecipitation IF—Immunofluorescence F—Flow cytometry E-P—ELISA-Peptide

Species Cross-Reactivity Key: H—human M—mouse R—rat Hm—hamster Mk—monkey 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 All—all species expected Species enclosed in parentheses are predicted to react based on 100% homology.