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#9497

## CASK (D38F6) Rabbit mAb

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

<b>Applications:</b> W	<b>Reactivity:</b> H M R	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 105	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #O14936	<b>Entrez-Gene Id:</b> 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 (D38F6) 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 Thr774 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

1. Hata, Y. et al. (1996) *J Neurosci* 16, 2488-94.
2. Hsueh, Y.P. et al. (2000) *Nature* 404, 298-302.
3. Laverty, H.G. and Wilson, J.B. (1998) *Genomics* 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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