

#9497 Store at -20C

## CASK (D38F6) Rabbit mAb



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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB	H M R	Endogenous	105	Rabbit IgG	#O14936	8573

### 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 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) *J Neurosci* 16, 2488-94.
2. Hsueh, Y.P. et al. (2000) *Nature* 404, 298-302.
3. Lavery, 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

**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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