

CASK

Cat.No. 150 002; Polyclonal rabbit antibody, 200 µl antiserum (lyophilized)

Data Sheet

Reconstitution/ Storage	200 µl antiserum, lyophilized. For reconstitution add 200 µl H ₂ O, then aliquot and store at -20°C until use.
Applications	WB: 1 : 100 up to 1 : 1000 (AP staining) IP: not tested yet ICC: yes IHC: yes IHC-P/FFPE: not tested yet
Immunogen	Recombinant protein corresponding to AA 1 to 337 from rat CASK (UniProt Id: Q62915)
Reactivity	Reacts with: rat (Q62915), mouse (O70589), hamster. Other species not tested yet.
Specificity	Specific for CASK.

TO BE USED IN VITRO / FOR RESEARCH ONLY

NOT TOXIC, NOT HAZARDOUS, NOT INFECTIOUS, NOT CONTAGIOUS

CASK, like PSD 95, belongs to the family of membrane associated guanylate kinase homologues (MAGUKs) but contains an additional N-terminal CaM kinase-like domain. It has been shown to interact with Mint and Veli via its N-terminal domains. PDZ domains are present in all three proteins of the complex. They are free to recruit other proteins like neuexins and syndecans. The complex of CASK, Velis and Mint is conserved across kingdoms and has also been observed in *C. elegans*.

Selected References SYSY Antibodies

The proteome of the presynaptic active zone: from docked synaptic vesicles to adhesion molecules and maxi-channels.
Morciano M, Beckhaus T, Karas M, Zimmermann H, Volkandt W
Journal of neurochemistry (2009) 108(3): 662-75. **WB**

CASK and Dlg form a PDZ protein complex at the mammalian neuromuscular junction.
Sanford JL, Mays TA, Rafael-Fortney JA
Muscle & nerve (2004) 30(2): 164-71.

Selected General References

CASK participates in alternative tripartite complexes in which Mint 1 competes for binding with caskin 1, a novel CASK-binding protein.

Tabuchi K, Biederer T, Butz S, Südhof TC
The Journal of neuroscience : the official journal of the Society for Neuroscience (2002) 22(11): 4264-73.

CASK and Dlg form a PDZ protein complex at the mammalian neuromuscular junction.
Sanford JL, Mays TA, Rafael-Fortney JA
Muscle & nerve (2004) 30(2): 164-71.

A multiprotein trafficking complex composed of SAP97, CASK, Veli, and Mint1 is associated with inward rectifier Kir2 potassium channels.

Leonoudakis D, Conti LR, Radeke CM, McGuire LM, Vandenberg CA
The Journal of biological chemistry (2004) 279(18): 19051-63.

The scaffolding protein CASK mediates the interaction between rabphilin3a and beta-neurexins.
Zhang Y, Luan Z, Liu A, Hu G
FEBS letters (2001) 497(2-3): 99-102.

A tripartite protein complex with the potential to couple synaptic vesicle exocytosis to cell adhesion in brain.
Butz S, Okamoto M, Südhof TC
Cell (1998) 94(6): 773-82.

The making of neuexins.
Missler M, Fernandez-Chacon R, Südhof TC
Journal of neurochemistry (1998) 71(4): 1339-47.