

CASK

Cat.No. 150 103; Polyclonal rabbit antibody, 50 µg specific antibody (lyophilized)

Data Sheet

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| Reconstitution/ Storage | 50 µg specific antibody, lyophilized. Affinity purified with the immunogen. Rabbit serum albumin was added for stabilization. For reconstitution add 50 µl H ₂ O to get a 1mg/ml solution in PBS. 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 318 to 415 from rat CASK (UniProt Id: Q62915) |
| Reactivity | Reacts with: rat (Q62915), mouse (O70589). 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 neurexins and syndecans. The complex of CASK, Velis and Mint is conserved across kingdoms and has also been observed in *C. elegans*.

Selected General References

- CASK participates in alternative tripartite complexes in which Mint 1 competes for binding with caskin 1, a novel CASK-binding protein.
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- CASK and Dlg form a PDZ protein complex at the mammalian neuromuscular junction.
Sanford JL, Mays TA, Rafael-Fortney JA
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- 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.
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- A tripartite protein complex with the potential to couple synaptic vesicle exocytosis to cell adhesion in brain.
Butz S, Okamoto M, Südhof TC
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- The making of neurexins.
Missler M, Fernandez-Chacon R, Südhof TC
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