

CASKIN2 Antibody

Catalog # ASC11431

Product Information

Application	WB, IF, ICC, E
Primary Accession	Q8WXE0
Other Accession	NP_065804 , 217416347
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	126783
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	CASKIN2 antibody can be used for detection of EPAC1 by Western blot at 1 μ g/mL. Antibody can also be used for immunocytochemistry starting at 2.5 μ g/mL. For immunofluorescence start at 5 μ g/mL.

Additional Information

Gene ID	57513
Other Names	Caskin-2, CASK-interacting protein 2, CASKIN2, KIAA1139
Target/Specificity	CASKIN2; CASKIN2 antibody is predicted to not cross-react with other CASKIN family members. Three isoforms of CASKIN2 are known to exist; this antibody will not detect the shortest isoform.
Reconstitution & Storage	CASKIN2 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Precautions	CASKIN2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	CASKIN2
Synonyms	KIAA1139
Cellular Location	Cytoplasm.

Background

CASKIN2 Antibody: Calcium/calmodulin-dependent serine protein kinase (CASK) is a conserved multi-domain scaffolding protein involved in brain development, synapse formation, and establishment of cell polarity. CASKINs (CASK interacting protein) interact with CASK and is thought to play a role in CASK function, specifically by coupling CASK to distinct downstream effectors. CASKIN2 is a multidomain protein containing six N-terminal ankyrin repeats, one SH3 domain, and two sterile alpha motif domains followed by a long proline-rich sequence and a short conserved C-terminal domain. It is expressed ubiquitously with highest levels present in fetal and adult liver tissue.

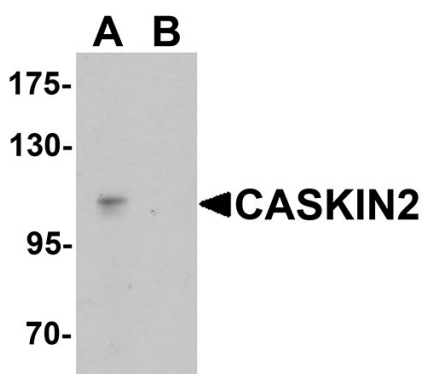
References

Stafford RL, Ear J, Knight MJ, et al. The molecular basis of the Caskin1 and Mint1 interaction with CASK. *J. Mol. Biol.* 2011; 412:3-13

Weng YL, Liu N, DiAntonio A, et al. The cytoplasmic adaptor protein Caskin mediates Lar signal transduction during *Drosophila* motor axon guidance. *Neurosci.* 2011; 31:4421-33.

Tabuchi K, Biederer T, Butz S, et al. CASK participates in alternative tripartite complexes in which Mint 1 competes for binding with CASKIN2, a novel CASK-binding protein. *J. Neurosci.* 2002; 22:4264-73.

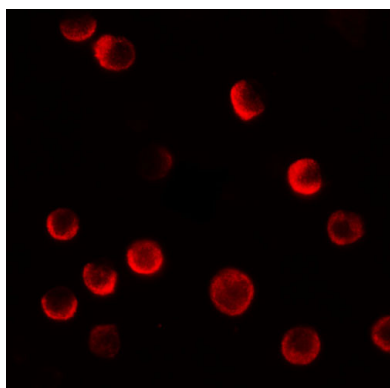
Images



Western blot analysis of CASKIN2 in HeLa cell lysate with CASKIN2 antibody at 1 $\mu\text{g/mL}$ in (A) the absence and (B) the presence of blocking peptide.



Immunocytochemistry of CASKIN2 in HeLa cells with CASKIN2 antibody at 2.5 $\mu\text{g/mL}$.



Immunofluorescence of CASKIN2 in HeLa cells with CASKIN2 antibody at 20 $\mu\text{g/mL}$.

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