

Datasheet for ABIN968174
anti-CASK antibody (AA 353-486)[2 Images](#)[5 Publications](#)[Go to Product page](#)

Overview

Quantity:	50 µg
Target:	CASK
Binding Specificity:	AA 353-486
Reactivity:	Human, Mouse, Rat, Dog, Frog
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CASK antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Immunoprecipitation (IP)

Product Details

Immunogen:	Rat CASK aa. 353-486
Clone:	7-CASK
Isotype:	IgG1
Cross-Reactivity:	Mouse (Murine), Human, Dog (Canine), Frog
Characteristics:	<ol style="list-style-type: none">1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.2. Please refer to us for technical protocols.3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

Product Details

Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.
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Target Details

Target:	CASK
Alternative Name:	CASK (CASK Products)
Background:	<p>CASK is a recently identified cytosolic protein kinase with homology to the Ca²⁺/CaM-dependent kinases and the synaptic associated proteins SAPs/PSDs. Like the SAPs, CASK contains a PDZ domain, an SH3 region, and a guanylate kinase domain. However, unlike the rest of the PDZ protein family, the amino terminus of CASK has significant homology with the Ca²⁺/Calmodulin-dependent kinases. Although widely expressed, CASK is highly enriched in the synaptic plasma membrane where it associates with neuexins, the neuronal cell surface proteins. Neuexins are a complex family of surface proteins that act as receptors for a number of venoms and toxins and regulate the clustering of several ion channels at the synapse. In addition, neuexins bind heterotypically to neuroligins, therefore adjoining different cell types. Neuroligins bind intracellularly to PSD95 and related proteins, whereas neuexins bind to CASK through their C-terminal region and at CASK's PDZ domain. The interaction of neuexins and CASK at the outside of the cell may modulate CASK's activity and trigger an intracellular signaling cascade.</p>
Molecular Weight:	120 kDa
Pathways:	Synaptic Vesicle Exocytosis

Application Details

Comment:	Related Products: ABIN968545, ABIN967389
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	250 µg/mL
Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09 % sodium azide.
Preservative:	Sodium azide

Handling

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: -20 °C

Storage Comment: Store undiluted at -20° C.

Publications

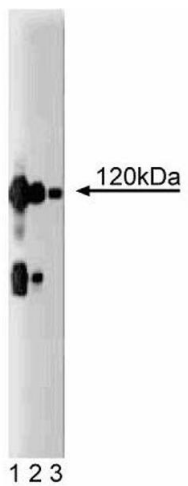
Product cited in: Fallon, Moreau, Croft, Labib, Gu, Fon: "Parkin and CASK/LIN-2 associate via a PDZ-mediated interaction and are co-localized in lipid rafts and postsynaptic densities in brain." in: **The Journal of biological chemistry**, Vol. 277, Issue 1, pp. 486-91, (2002) ([PubMed](#)).

Biederer, Südhof: "CASK and protein 4.1 support F-actin nucleation on neuroligins." in: **The Journal of biological chemistry**, Vol. 276, Issue 51, pp. 47869-76, (2001) ([PubMed](#)).

Borg, López-Figueroa, de Taddèo-Borg, Kroon, Turner, Watson, Margolis: "Molecular analysis of the X11-mLin-2/CASK complex in brain." in: **The Journal of neuroscience : the official journal of the Society for Neuroscience**, Vol. 19, Issue 4, pp. 1307-16, (1999) ([PubMed](#)).

Irie, Hata, Takeuchi, Ichtchenko, Toyoda, Hirao, Takai, Rosahl, Südhof: "Binding of neuroligins to PSD-95." in: **Science (New York, N.Y.)**, Vol. 277, Issue 5331, pp. 1511-5, (1997) ([PubMed](#)).

Hata, Butz, Südhof: "CASK: a novel dlg/PSD95 homolog with an N-terminal calmodulin-dependent protein kinase domain identified by interaction with neuroligins." in: **The Journal of neuroscience : the official journal of the Society for Neuroscience**, Vol. 16, Issue 8, pp. 2488-94, (1996) ([PubMed](#)).



Western Blotting

Image 1. Western blot analysis of CASK on a rat cerebrum lysate. Lane 1: 500, lane 2: 1:1000, lane 3: 1:2000 dilution of the mouse anti-CASK antibody.

Image 2.

