

Datasheet for 200-301-F02**CASK Antibody****Overview**

Description:	Anti-CASK (MOUSE) Monoclonal Antibody - 200-301-F02
Item No.:	200-301-F02
Size:	100 µg
Applications:	IHC, WB
Reactivity:	Human, Mouse, Rat, Xenopus, Zebrafish
Host Species:	Mouse

Product Details

Background:	CASK (calmodulin sensitive kinase) is a ~112kDa member of the membrane associated quanylate kinase (MAGUK) protein family. It is an adaptor protein with a calcium/calmodulin-dependent protein kinase domain, a 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 Neuexin to stabilize pre- and post-synaptic structures. While most of CASK proteins are cytoplasmic, a portion of the protein enters the nucleus, where it acts as a transcriptional co-activator. Manifesting the importance of CASK, transgenic mice with insertional mutations die within 24 hours of births. CASK is also localized in the nuclei of basal keratinocytes in newborn rodent skin and developing hair follicles. It may play a role in wound healing.
Synonyms:	Peripheral plasma membrane protein CASK, Calcium/calmodulin-dependent serine protein kinase
Host Species:	Mouse
Clonality:	Monoclonal
Clone ID:	S56A-50
Format:	IgG1

Target Details

Gene Name:	Cask
Reactivity:	Human, Mouse, Rat, Xenopus, Zebrafish

Immunogen Type:	Recombinant Protein
Immunogen:	CASK Antibody was produced in mice by repeated immunizations with a fusion protein of rat CASK/Lin2.
Purity/Specificity:	Anti-CASK Antibody was purified by Protein G chromatography. A BLAST analysis was used to suggest cross-reactivity with CASK from Mouse, Rat, Human, Zebrafish, and Xenopus based on 100% homology with the immunizing sequence. Cross-reactivity with CASK from other sources has not been determined. Scaffolds research.
Relevant Links:	• NCBI - NP_071520.1 • GenelD - 29647 • UniProtKB - Q62915

Application Details

Tested Applications:	IHC, WB
Application Note:	Anti-CASK Antibody is tested for use in WB and IHC. Expect a band approximately ~100kDa on specific lysates. Specific conditions for reactivity should be optimized by the end user.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
IHC:	User Optimized
IP:	User Optimized
WB:	1:1000

Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1mg/mL by UV absorbance at 280 nm
Buffer:	1X PBS, pH 7.4
Preservative:	0.09% (w/v) Sodium Azide
Stabilizer:	50% (v/v) Glycerol

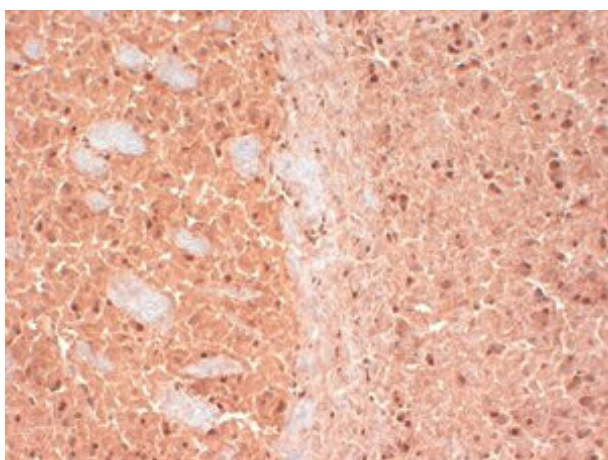
Shipping & Handling

Shipping Condition:	Dry Ice
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Storage Condition: Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

Expiration: Expiration date is one (1) year from date of receipt.

Images



Immunohistochemistry

Immunohistochemistry of Mouse anti-CASK antibody.
Tissue: Frozen mouse brain extract. Fixation: Frozen.
Primary Antibody: anti-CASK antibody at 1ug/ml for 1h at RT.
Secondary antibody: Peroxidase mouse secondary at 1:10,000 for 45 min at RT. Localization: Nucleus and Cytoplasm. Staining: CASK as precipitated brown signal.



Western Blot

Western Blot of mouse anti-CASK antibody. Lane 1: molecular weight marker. Lane 2: Rat brain membrane tissues. Load: 10ug. Primary antibody: CASK at 1:1000 overnight at 4°C. Secondary antibody: Goat anti-mouse IgG HRP at 1:40,000 for 45 min at RT. Blocked: 5% Biotin overnight at 4°C. Predicated/observed size: 103.2 kDa, 100 kDa for CASK.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.