

# Product Datasheet

## CASK Antibody - BSA Free

### NBP2-41181

Unit Size: 0.1 mg

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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**NBP2-41181**

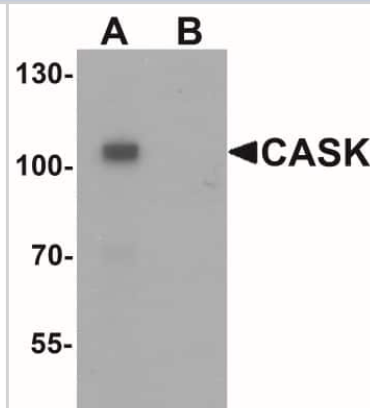
CASK Antibody - BSA Free

Product Information	
Unit Size	0.1 mg
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Peptide affinity purified
Buffer	PBS
Product Description	
Host	Rabbit
Gene ID	8573
Gene Symbol	CASK
Species	Human, Mouse, Rat
Specificity/Sensitivity	At least six alternatively spliced transcript variants have been observed.
Immunogen	Antibody was raised against a 16 amino acid synthetic peptide near the amino terminus of human CASK. The immunogen is located within amino acids 760 - 810 of CASK. Amino Acid Sequence: YPIPHTRPPKKDEENGKN
Product Application Details	
Applications	Western Blot, Simple Western, ELISA, Immunocytochemistry/Immunofluorescence
Recommended Dilutions	Western Blot 1 ug/mL, Simple Western, ELISA, Immunocytochemistry/Immunofluorescence 20 ug/mL
Application Notes	Simple Western reported in a verified customer review. See <a href="#">Simple Western Antibody Database</a> for Simple Western validation: Tested in Differentiating human neuroepithelial stem cells, separated by Size, antibody dilution of 1:500 and 1:1000, apparent MW was 116, 38 kDa

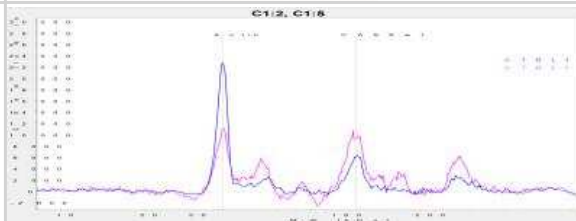


## Images

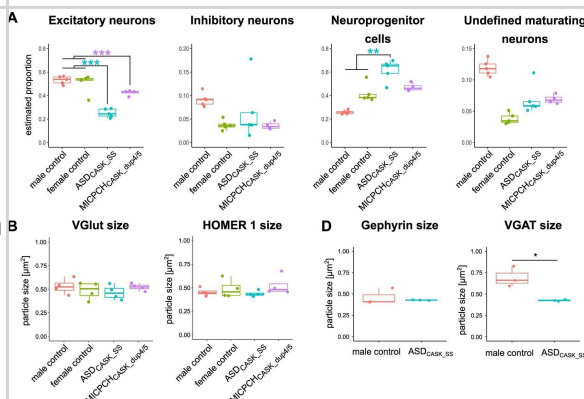
Western Blot: CASK Antibody [NBP2-41181] - Western blot analysis of CASK in mouse brain tissue lysate with CASK antibody at 1 ug/ml in (A) the absence and (B) the presence of blocking peptide.



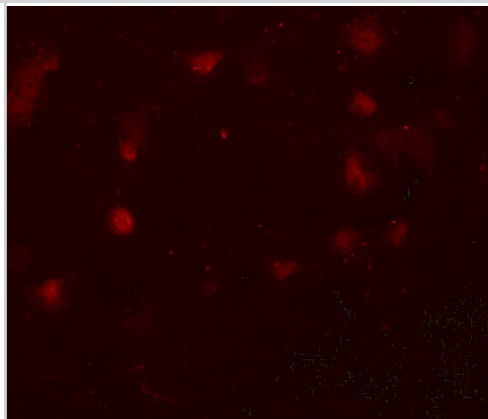
Simple Western: CASK Antibody [NBP2-41181] - 0.6 mg/ml protein lysates from differentiating human neuroepithelial stem cells run on Simple Western with 1:500 CASK.Ab (blue) and 1:1000 CASK.Ab (pink) and an actin antibody as positive control. The CASK peak is located at 116 kDa and actin at 38 kDa. Image is courtesy of customer.



Simple Western: CASK Antibody - BSA Free [NBP2-41181] - Presynaptic effect is limited to inhibitory VGAT presynaptic marker. a Deconvolution of cell-type populations underlying bulk RNA-sequence samples from all cell lines. b Quantification of VGlut & Homer-1 particle size (n = 4 per cell line). c Representative confocal microscopy images of neurons differentiated for 28 days & immunostained for inhibitory VGAT (green), Homer-1 (red), & Hoechst (blue). Scale = 10  $\mu$ m. d Quantification of VGAT & Homer-1 particle size (n = 3 per cell line). Statistical differences between cell lines were calculated using ANOVA with post hoc Tukey HSD. \*p < 0.05, \*\*p < 0.01, \*\*\*p < 0.001. Asterisks are color-coded according to case cell lines. e In vivo concentration of GABA in the DLPFC, MFC, & putamen of ASDCASK\_SS & his cotwin in relation to a typical developed control group. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/32929080>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Immunocytochemistry/ Immunofluorescence: CASK Antibody - BSA Free [NBP2-41181] - Immunofluorescence of CASK in human brain tissue with CASK antibody at 20 ug/mL.



## Publications

Li D Genetic implications of individual intervention and neuronal dysfunction in neurodevelopmental disorders Thesis 2022-01-01 (ICC/IF, WB, Human)

Becker M, Mastropasqua F, Reising JP et al. Presynaptic dysfunction in CASK-related neurodevelopmental disorders Transl Psychiatry 2020-09-14 [PMID: 32929080] (ICC/IF, Simple Western, WB, Human)





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### **Products Related to NBP2-41181**

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HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
NBP1-86673PEP	CASK Recombinant Protein Antigen

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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