Product Datasheet

HOMER1 Antibody
NBP1-44999

Unit Size: 0.1 ml

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

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Publications: 4

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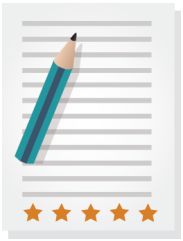
www.novusbio.com/NBP1-44999

Updated 10/23/2024 v.20.1



NBP1-44999

HOMER1 Antibody

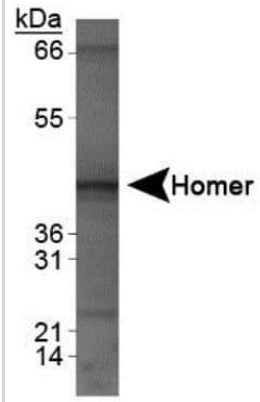
Product Information	
Unit Size	0.1 ml
Concentration	This product is unpurified. The exact concentration of antibody is not quantifiable.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.1% Sodium Azide
Isotype	IgG
Purity	Unpurified
Buffer	Whole antisera
Target Molecular Weight	40 kDa

Product Description	
Host	Rabbit
Gene ID	9456
Gene Symbol	HOMER1
Species	Human, Mouse
Reactivity Notes	Immunogen sequence has 99% identity to rat, 98% to bovine, 96% to Xenopus and 74% to zebrafish.
Immunogen	N-terminal partial recombinant human HOMER protein expressed in E. coli. [Swiss-Prot# Q86YM7]

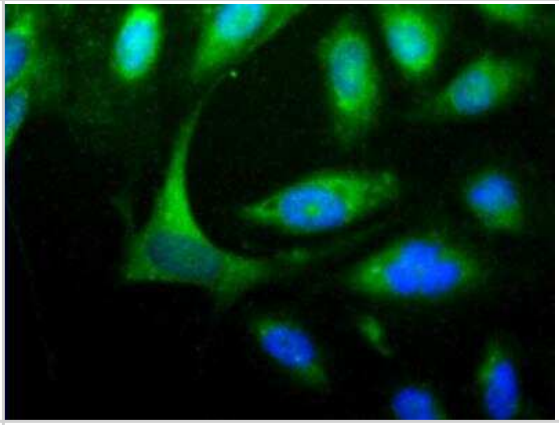
Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence
Recommended Dilutions	Western Blot 1:1000, Immunocytochemistry/ Immunofluorescence 1:100
Application Notes	This HOMER1 antibody is useful in Immunocytochemistry/Immunofluorescence and Western blot, where a band at ~40 kDa is observed. The observed molecular weight of the protein may vary from the listed predicted molecular weight due to post translational modifications, post translation cleavages, relative charges, and other experimental factors.

Images

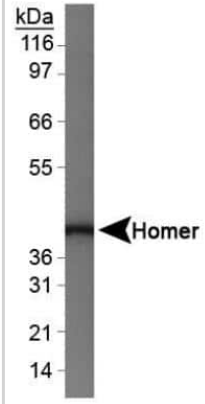
Western Blot: HOMER1 Antibody [NBP1-44999] - Analysis of HOMER1 on human brain lysate.



Immunocytochemistry/Immunofluorescence: HOMER1 Antibody [NBP1-44999] - Detection of HOMER1 (Green) in Hela cells using NBP1-44999. Nuclei (Blue) are counterstained using Hoechst 33258.



Western Blot: HOMER1 Antibody [NBP1-44999] - Analysis of HOMER1 on mouse brain lysate.



Publications

Barman B, Kushwaha A, Thakur MK Muscarinic Acetylcholine Receptors-Mediated Activation of PKC Restores the Hippocampal Immediate Early Gene Expression and CREB Phosphorylation in Scopolamine-Induced Amnesic Mice Molecular neurobiology 2022-07-04 [PMID: 35789976]

Srivas S, Thakur MK. Transcriptional co-repressor SIN3A silencing rescues decline in memory consolidation during scopolamine-induced amnesia. J Neurochem 2018-05-01 [PMID: 29494759] (Mouse)

Singh P, Thakur MK. Histone Deacetylase 2 Inhibition Attenuates Downregulation of Hippocampal Plasticity Gene Expression during Aging. Mol. Neurobiol. 2017-03-31 [PMID: 28364391] (WB, Mouse)

Srivas S, Thakur MK. Epigenetic regulation of neuronal immediate early genes is associated with decline in their expression and memory consolidation in scopolamine-induced amnesic mice. Mol. Neurobiol. 2016-08-23 [PMID: 27553230] (WB)

Procedures

Protocol specific for Homer Antibody (NBP1-44999)
HOMER1 Antibody:
Western Blot Protocol
1. Perform SDS-PAGE (4-12% MOPS) on samples to be analyzed, loading 40 ug of total protein per lane.
2. Transfer proteins to Nitrocellulose according to the instructions provided by the manufacturer of the transfer apparatus.
3. Rinse membrane with dH2O and then stain the blot using Ponceau S for 1-2 minutes to access the transfer of proteins onto the nitrocellulose membrane. Rinse the blot in water to remove excess stain and mark the lane locations and locations of molecular weight markers using a pencil.
4. Rinse the blot in TBS for approximately 5 minutes.
5. Block the membrane using 5% NFDM + 1% BSA in TBS + Tween, 1 hour at RT.
6. Rinse the membrane in dH2O and then wash the membrane in wash buffer [TBS + 0.1% Tween] 3 times for 10 minutes each.
7. Dilute the rabbit anti-Homer primary antibody (NBP1-44999) in blocking buffer and incubate 1 hour at room temperature.
8. Rinse the membrane in dH2O and then wash the membrane in wash buffer [TBS + 0.1% Tween] 3 times for 10 minutes each.
9. Apply the diluted rabbit-IgG HRP-conjugated secondary antibody in blocking buffer (as per manufacturers instructions) and incubate 1 hour at room temperature.
10. Wash the blot in wash buffer [TBS + 0.1% Tween] 3 times for 10 minutes each (this step can be repeated as required to reduce background).
11. Apply the detection reagent of choice in accordance with the manufacturers instructions (Pierce ECL).
Note: Tween-20 can be added to the blocking or antibody dilution buffer at a final concentration of 0.05-0.2%, provided it does not interfere with antibody-antigen binding.

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Products Related to NBP1-44999

NB820-59177	Human Brain Whole Tissue Lysate (Adult Whole Normal)
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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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