

# Product Datasheet

## APP Antibody - Azide Free NB300-308

Unit Size: 0.1 ml

Store at -20C. Avoid freeze-thaw cycles.

[www.novusbio.com](http://www.novusbio.com)



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### Publications: 1

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**NB300-308**

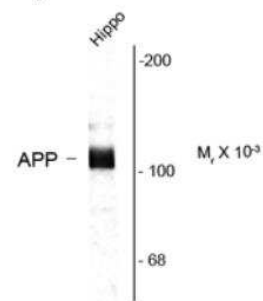
APP Antibody - Azide Free

<b>Product Information</b>	
<b>Unit Size</b>	0.1 ml
<b>Concentration</b>	Please see the vial label for concentration. If unlisted please contact technical services.
<b>Storage</b>	Store at -20C. Avoid freeze-thaw cycles.
<b>Clonality</b>	Polyclonal
<b>Preservative</b>	No Preservative
<b>Isotype</b>	IgG
<b>Purity</b>	Antigen Affinity-purified
<b>Buffer</b>	10mM HEPES (pH 7.5), 0.15M NaCl, 0.1 mg/ml BSA and 50% Glycerol
<b>Target Molecular Weight</b>	115 kDa
<b>Product Description</b>	
<b>Host</b>	Rabbit
<b>Gene ID</b>	351
<b>Gene Symbol</b>	APP
<b>Species</b>	Mouse, Rat
<b>Reactivity Notes</b>	It is anticipated that the antibody will also work with canine, chicken, human, mouse and non-human primate tissues based on the fact that these species have 100% homology with the amino acid sequence used as antigen.
<b>Specificity/Sensitivity</b>	Specific for endogenous levels of the ~115 kDa APP protein. Immunolabeling of the APP protein band is completely blocked by preadsorption of the antibody with the peptide used as antigen.
<b>Immunogen</b>	Synthetic peptide corresponding to amino acid residues from the C-terminal region conjugated to KLH. Accession # P08592
<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, Immunocytochemistry/ Immunofluorescence
<b>Recommended Dilutions</b>	Western Blot 1:1000, Immunocytochemistry/ Immunofluorescence
<b>Application Notes</b>	Immunolabeling of the APP protein band is completely blocked by preadsorption of the with the peptide used as antigen. Expected band seen at ~115 kDa in Western blots. Use in Immunocytochemistry/immunofluorescence reported in scientific literature (PMID : 29176823).

## Images

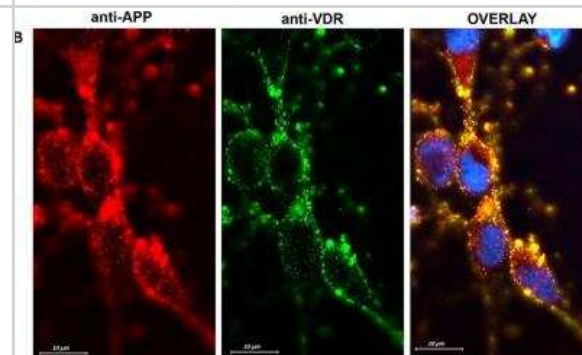
Western Blot: APP Antibody [NB300-308]

Anti-Amyloid Precursor Protein

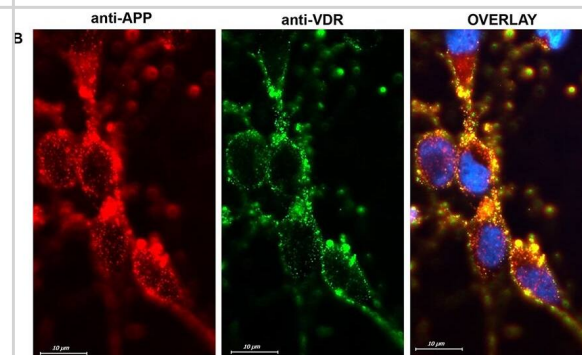


Western blot of rat hippocampal lysate showing specific immunolabeling of the ~115k APP protein.

Immunocytochemistry/Immunofluorescence: APP Antibody [NB300-308] - Cell surface staining of VDR (green) on live neurons followed by fixation and immunofluorescence labeling of target protein (100x) APP. Overlay images indicate the possible co-localization of VDR/APP on the neuronal plasma membrane. Image collected and cropped by CiteAb from the following publication (<https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0188605>) licensed under a CC-BY license.



Western Blot: APP Antibody [NB300-308] - Cell surface staining of VDR (green) on live neurons followed by fixation & immunofluorescence labeling of target proteins (100x): A) ADAM10; B) APP; C) BACE1; D) Nicastrin; E) Presenilin 1; F) Presenilin 2. Overlay images indicate the possible co-localization of VDR/ADAM10 (A) or VDR/APP (B) or VDR/Nicastrin (D) or limited co-localization of VDR/ Presenilin 1 (E) on the neuronal plasma membrane. Overlay images do not indicate co-localization for VDR/BACE1 (C) or VDR/Presenilin 2 (F) on the neuronal plasma membrane. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/29176823>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



## Publications

Dursun E. , Gezen-Ak D. Vitamin D receptor is present on the neuronal plasma membrane and is co-localized with amyloid precursor protein, ADAM10 or Nicastrin. PLoS One 2017-11-28 [PMID: 29176823] (ICC/IF, Rat)



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### **Products Related to NB300-308**

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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
NBP1-90246PEP	APP 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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