Order online now!

www.rockland.com
tech@rockland.com
+1 484.791.3823

Datasheet for 600-401-G76

APP Antibody

Overview

Description:	Anti-APP (RABBIT) Antibody - 600-401-G76
Item No.:	600-401-G76
Size:	100 µg
Applications:	ELISA, IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	APP antibody detects the human amyloid A4 protein. Accumulation of the amyloid-beta peptide (Abeta) in the cerebral cortex is a critical event in the pathogenesis of Alzheimer's disease. The beta-amyloid protein precursor (APP) is cleaved by beta-secretase, producing a soluble derivative of the protein and a membrane anchored 99-amino acid carboxy-terminal fragment (C99). The C99 fragment serves as substrate for gamma-secretase to generate the 4 kDa amyloid-beta peptide (Abeta), which is deposited in the brains of all suffers of Alzheimer's disease. Anti-APP is ideal for investigators that are involved in Neuroscience research.
Synonyms:	APP, ABPP, Amyloid beta A4 protein, Amyloid-beta precursor protein, Alzheimer disease amyloid protein, Cerebral vascular amyloid peptide, A4, AD1
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	APP
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide

Immunogen:	APP Antibody was produced from whole rabbit serum prepared by repeated immunizations with a peptide corresponding to amino acids of human amyloid A4 protein precursor (APP) corresponding to the n-terminus of the 4K Ab peptide generated by b- and g-secretases. The peptide sequences are identical to those of rabbit, pig, bovine, guinea pig, and chicken.
Purity/Specificity:	Anti-APP Antibody was affinity purified from monospecific antiserum by immunoaffinity purification. A BLAST analysis was used to suggest cross-reactivity with APP with Human, Mouse and Rat based on 100% homology with the immunizing sequence. Cross-reactivity with APP from other sources has not been determined.
Relevant Links:	• NCBI - CAA30050 • UniProtKB - P05067 • GeneID - 351

Application Details

Tested Applications:	ELISA, IHC, WB
Application Note:	Anti-APP Antibody is tested for use in E, WB, and IHC. Expect a band approximately ~86.9 kDa on specific lysates. Western Blot tested in human, mouse, and rat samples; Immunohistochemistry in human samples and Immunofluorescence in rat samples. 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:	2.5µg/mL
WB:	1µg/mL

Formulation

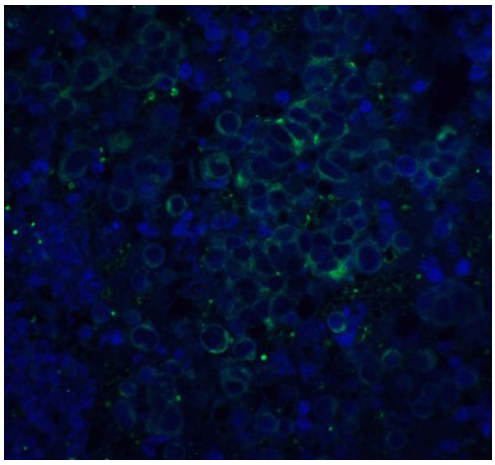
Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

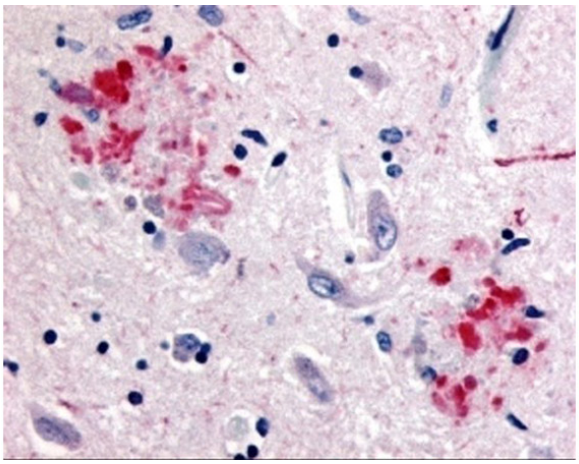
Shipping Condition:	Dry Ice

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.

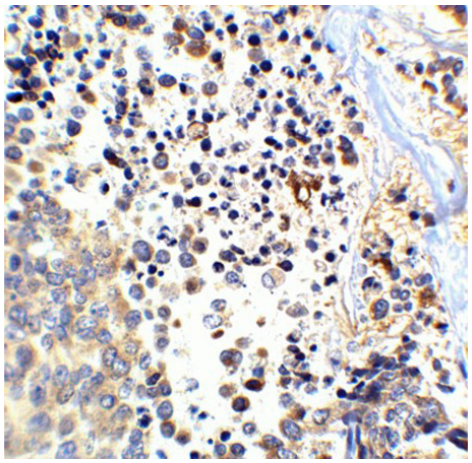
Images



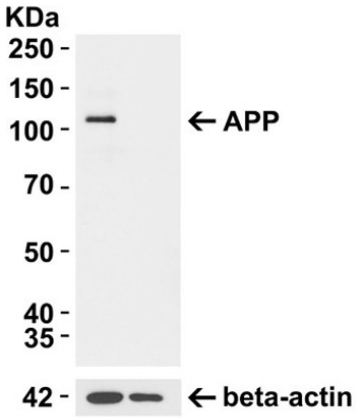
Immunofluorescence Microscopy
Immunofluorescence of APP.
Tissue: rat heart tissue.
Primary Antibody: Anti-APP antibody at 20 µg/mL.
Staining: APP Antibody (green), DAPI (blue).



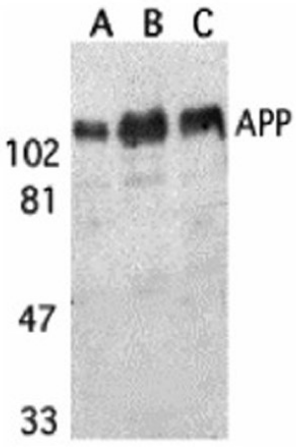
Immunohistochemistry
Immunohistochemistry of APP.
Tissue: human brain (Alzheimer's disease) tissue.
Primary Antibody: Anti-APP antibody at 10 µg/mL.



Immunohistochemistry
Immunohistochemistry of APP.
Tissue: human brain tissue.
Primary Antibody: Anti-APP antibody at 2.5 µg/ml.



Western Blot
Western Blot KO Validation of Anti-APP.
Loading: 10 µg of 293T Cell lysate.
Primary Antibody: Anti-APP at 0.5 µg/mL and beta-actin at 1µg/mL for 1h at RT in 5% NFDM/TBST.
Secondary: Goat Anti-Rabbit IgG HRP conjugate at 1:10000 dilution.



Western Blot
Western blot analysis of APP.
Lane: (A) human, (B) mouse, and (C) rat brain tissue lysates.
Primary Antibody: Anti-APP antibody at 1 µg/mL.

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.