

Product Datasheet

APP Antibody (6E10) - Chimeric - Azide and BSA Free NBP2-62566

Unit Size: 0.2 mg

Store at 4C for up to 3 months. For longer storage, aliquot and store at -20C.

www.novusbio.com



technical@novusbio.com

Publications: 12

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:
www.novusbio.com/NBP2-62566

Updated 9/20/2023 v.20.1

Earn rewards for product
reviews and publications.

Submit a publication at www.novusbio.com/publications

Submit a review at www.novusbio.com/reviews/destination/NBP2-62566



NBP2-62566

APP Antibody (6E10) - Chimeric - Azide and BSA Free

| Product Information | |
|---------------------|--|
| Unit Size | 0.2 mg |
| Concentration | 1 mg/ml |
| Storage | Store at 4C for up to 3 months. For longer storage, aliquot and store at -20C. |
| Clonality | Monoclonal |
| Clone | 6E10 |
| Preservative | 0.02% Proclin 300 |
| Isotype | IgG Kappa |
| Purity | Protein A purified |
| Buffer | PBS |

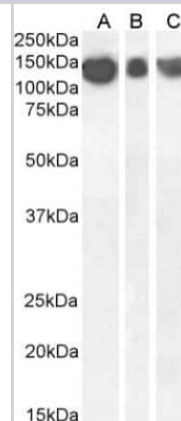
| Product Description | |
|-------------------------|--|
| Host | Rabbit |
| Gene ID | 351 |
| Gene Symbol | APP |
| Species | Human, Mouse (Negative) |
| Specificity/Sensitivity | This antibody binds to amino acid residues 1-16 of beta amyloid. |
| Immunogen | Amyloid-beta peptide |

| Product Application Details | |
|-----------------------------|--|
| Applications | Western Blot, ELISA, Electron Microscopy, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin, Immunoprecipitation |
| Recommended Dilutions | Western Blot 1:100 - 1:2000, ELISA 1:100 - 1:2000, Immunohistochemistry 1:10 - 1:500, Immunoprecipitation 1:10 - 1:500, Immunohistochemistry-Paraffin, Immunohistochemistry-Frozen, Electron Microscopy 1:10 - 1:500 |
| Application Notes | This chimeric rabbit antibody was made using the variable domain sequences of the original Mouse IgG1 format, for improved compatibility with existing reagents, assays and techniques. APP Antibody (6E10) validated for Immunohistochemistry-Frozen from a verified customer review. |

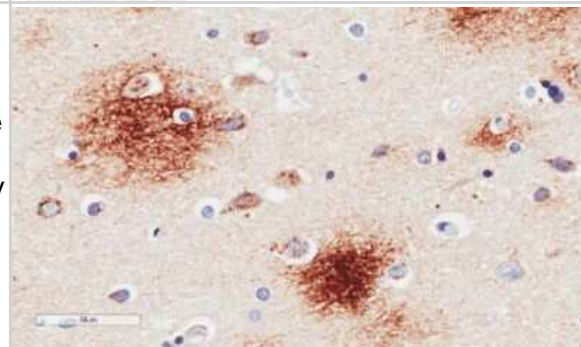


Images

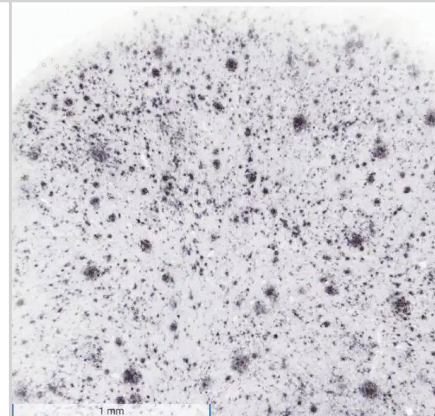
Western Blot: APP Antibody (6E10) - Chimeric [NBP2-62566] - Anti-Amyloid beta antibody 6E10. Human brain cerebral cortex (A), frontal cortex (B) and cerebellum (C) lysate samples (35ug protein in RIPA buffer) were resolved on a 10% SDS PAGE gel and blots probed with the chimeric rabbit version of 6E10 (NBP2-62566) at 0.3 ug/ml before detection using an anti-rabbit secondary antibody. A primary incubation of 1h was used and protein was detected by chemiluminescence. The expected band size for Amyloid beta is ~35kDa, though this protein is known to form SDS-resistant low-molecular weight oligomers as seen in this blot (i.e. dimers, c.f. Kumar et al. PMID: 21527912). NBP2-62566 successfully detected aggregate human Amyloid beta in human brain cerebral cortex, frontal cortex and cerebellum lysate samples.



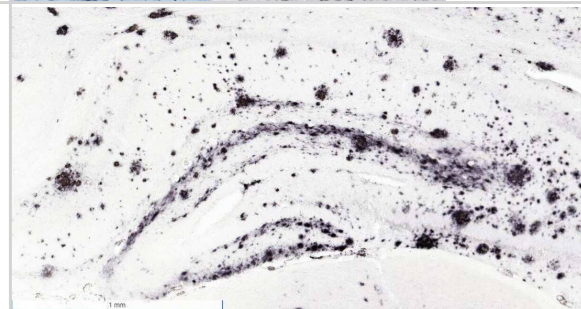
Immunohistochemistry-Paraffin: APP Antibody (6E10) - Chimeric [NBP2-62566] - Staining of human Alzheimer's disease hippocampus tissue using anti-Amyloid Beta antibody. 6E10 Anti-Amyloid Beta staining of paraffin embedded human hippocampus affected by Alzheimer's disease using the rabbit-chimeric version of 6E10 (NBP2-62566). Antigen retrieval was achieved by microwaving in citrate buffer (pH6), followed by blocking with protein block serum-free buffer. Primary antibody incubation with NBP2-62566 was carried out at 4 ug/ml for 30 minutes. Samples were then incubated with an anti-rabbit IgG HRP secondary antibody for 20 mins followed by DAB (3,3'-diaminobenzidine), and counter-staining with haematoxylin. Staining of amyloid plaques in the parahippocampal gyrus may be observed. Recommended concentration, 2-4 ug/ml.



Immunohistochemistry-Frozen: APP Antibody (6E10) - Chimeric [NBP2-62566] - 6E10 staining reveals amyloid plaque in frontal cortex of AD mouse model. Image from verified customer review.



Immunohistochemistry-Frozen: APP Antibody (6E10) - Chimeric [NBP2-62566] - Plaque staining in AD Mouse model (Hippocampus) - without formic acid pretreatment. Image from verified customer review.



Publications

Martin Flores, N;Podpolny, M;McLeod, F;Workman, I;Crawford, K;Ivanov, D;Leonenko, G;Escott-Price, V;Salinas, PC; Downregulation of Dickkopf-3, a Wnt antagonist elevated in Alzheimer's disease, restores synapse integrity and memory in a disease mouse model eLife 2024-01-29 [PMID: 38285009]

Ened Rodríguez-Urgellés, Anna Sancho-Balsells, Wanqi Chen, Laura López-Molina, Ivan Ballasch, Ignacio del Castillo, Conxita Avila, Jordi Alberch, Albert Giralt Meridianins Rescue Cognitive Deficits, Spine Density and Neuroinflammation in the 5xFAD Model of Alzheimer's Disease Frontiers in Pharmacology 2022-02-24 [PMID: 35281935]

Bose C, Kshirsagar S, Vijayan M et al. The role of RLIP76 in oxidative stress and mitochondrial dysfunction: Evidence based on autopsy brains from Alzheimer's disease patients Biochimica et Biophysica Acta (BBA) - Molecular Basis of Disease 2023-11-01 [PMID: 37926360] (IHC-P, Human)

Sheikh AM, Yano S, Tabassum S et al. Alzheimer's Amyloid ? Peptide Induces Angiogenesis in an Alzheimer's Disease Model Mouse through Placental Growth Factor and Angiopoietin 2 Expressions International journal of molecular sciences 2023-02-24 [PMID: 36901941] (IHC, Mouse)

Fei Z, Pei R, Pan B et al. Antibody Assay and Anti-Inflammatory Function Evaluation of Therapeutic Potential of Different Intravenous Immunoglobulins for Alzheimer's Disease International journal of molecular sciences 2023-03-14 [PMID: 36982622] (ELISA, WB, Mouse)

Jones ME, Büchler J, Dufor T et al. A genetic variant of the Wnt receptor LRP6 accelerates synapse degeneration during aging and in Alzheimer's disease Science advances 2023-01-13 [PMID: 36638182] (IHC, Mouse)

Mowry FE, Espejo-Porras F, Jin S et al. Chronic nSMase inhibition suppresses neuronal exosome spreading and sex-specifically attenuates amyloid pathology in APP knock-in Alzheimer's disease mice Neurobiology of disease 2023-06-25 [PMID: 37364689] (IHC-Fr, Human)

Details:
IHC-Fr 1:250

Reddy PH, Kshirsagar S, Bose C et al. Rlip overexpression reduces oxidative stress and mitochondrial dysfunction in Alzheimer's disease: Mechanistic insights Biochimica et biophysica acta. Molecular basis of disease 2023-05-22 [PMID: 37225106] (ICC/IF)

Lee HY, Yoon S, Lee JH et al. Aryloxypropanolamine targets amyloid aggregates and reverses Alzheimer-like phenotypes in Alzheimer mouse models Alzheimer's research & therapy 2022-11-29 [PMID: 36443837] (IHC-P)

Thonda S, Puttapaka SN, Kona SV, Kalivendi SV Extracellular-Signal-Regulated Kinase Inhibition Switches APP Processing from beta - to alpha -Secretase under Oxidative Stress: Modulation of ADAM10 by SIRT1/NF- kappa B Signaling ACS chemical neuroscience 2021-11-03 [PMID: 34647720]

B Feng, AE Freitas, L Gorodetski, J Wang, R Tian, YR Lee, AS Grewal, Y Zou Planar cell polarity signaling components are a direct target of beta-amyloid-associated degeneration of glutamatergic synapses Science Advances, 2021-08-18;7(34):. 2021-08-18 [PMID: 34407949]

PErez-SisquEs L, Sancho-Balsells A, Solana-Balaguer J et al. RTP801/REDD1 contributes to neuroinflammation severity and memory impairments in Alzheimer's disease Cell Death & Disease 2021-06-01 [PMID: 34131105] (IF/IHC)



Novus Biologicals USA

10730 E. Briarwood Avenue
Centennial, CO 80112
USA
Phone: 303.730.1950
Toll Free: 1.888.506.6887
Fax: 303.730.1966
nb-customerservice@bio-techne.com

Bio-Techne Canada

21 Canmotor Ave
Toronto, ON M8Z 4E6
Canada
Phone: 905.827.6400
Toll Free: 855.668.8722
Fax: 905.827.6402
canada.inquires@bio-techne.com

Bio-Techne Ltd

19 Barton Lane
Abingdon Science Park
Abingdon, OX14 3NB, United Kingdom
Phone: (44) (0) 1235 529449
Free Phone: 0800 37 34 15
Fax: (44) (0) 1235 533420
info.EMEA@bio-techne.com

General Contact Information

www.novusbio.com
Technical Support: nb-technical@bio-techne.com
Orders: nb-customerservice@bio-techne.com
General: novus@novusbio.com

Products Related to NBP2-62566

| | |
|---------------|---|
| HAF008 | Goat anti-Rabbit IgG Secondary Antibody [HRP] |
| NB7160 | Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP] |
| NBP1-90246PEP | APP Recombinant Protein Antigen |
| 210-TA-005 | TNF-alpha [Unconjugated] |

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.

For more information on our 100% guarantee, please visit www.novusbio.com/guarantee

Earn gift cards/discounts by submitting a review: www.novusbio.com/reviews/submit/NBP2-62566

Earn gift cards/discounts by submitting a publication using this product:
www.novusbio.com/publications

