

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.

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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

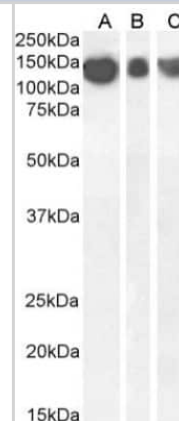
Product Description	
Description	Novus Biologicals Rabbit APP Antibody (6E10) - Chimeric - Azide and BSA Free (NBP2-62566) is a recombinant monoclonal antibody validated for use in IHC, WB, ELISA, ICC/IF and IP. Anti-APP Antibody: Cited in 14 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
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, Immunohistochemistry-Paraffin, ELISA, Electron Microscopy, Immunohistochemistry, Immunohistochemistry-Frozen, 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.

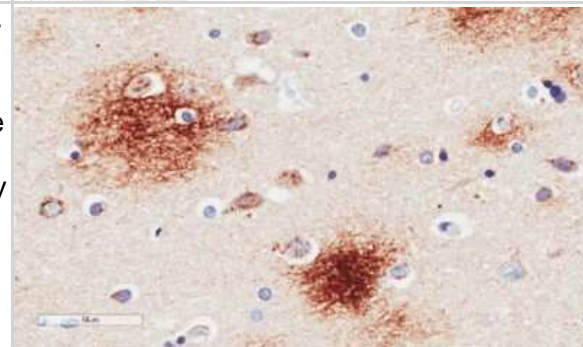


Images

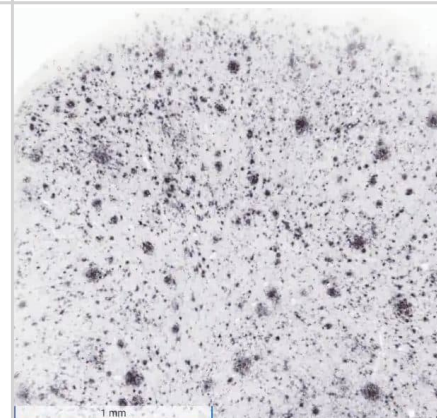
Western Blot: APP Antibody (6E10) - Chimeric [NBP2-62566] - Anti-Amyloid beta antibody 6E10. Human brain cerebral cortex (A), frontal cortex (B) and cerebellum (C) lysate samples (35ug protein in RIPA buffer) were resolved on a 10% SDS PAGE gel and blots probed with the chimeric rabbit version of 6E10 (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.



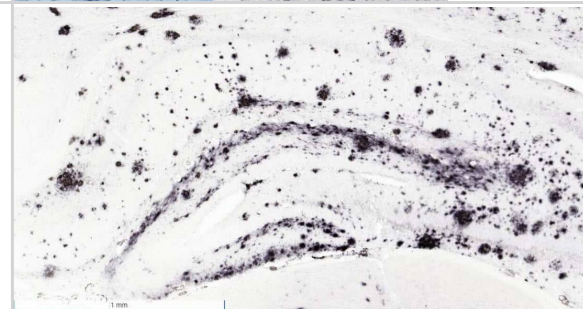
Immunohistochemistry-Paraffin: APP Antibody (6E10) - Chimeric [NBP2-62566] - Staining of human Alzheimer's disease hippocampus tissue using anti-Amyloid Beta antibody. 6E10 Anti-Amyloid Beta staining of paraffin embedded human hippocampus affected by Alzheimer's disease using the rabbit-chimeric version 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

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

Shen YR, Zaballa S, Bech X, Sancho-Balsells A et Al. Expansion of the neocortex and protection from neurodegeneration by in vivo transient reprogramming *Cell Stem Cell* 2024-10-19 [PMID: 39426381]

Sharma B, Torres MM, Rodriguez S et Al. MicroRNA-502-3p regulates GABAergic synapse function in hippocampal neurons *Neural Regen Res* 2024-12-01 [PMID: 38595288]

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]

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] (Immunohistochemistry-Paraffin, 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] (Immunohistochemistry-Frozen, 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] (Immunocytochemistry/ Immunofluorescence)

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]

More publications at <http://www.novusbio.com/NBP2-62566>





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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

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