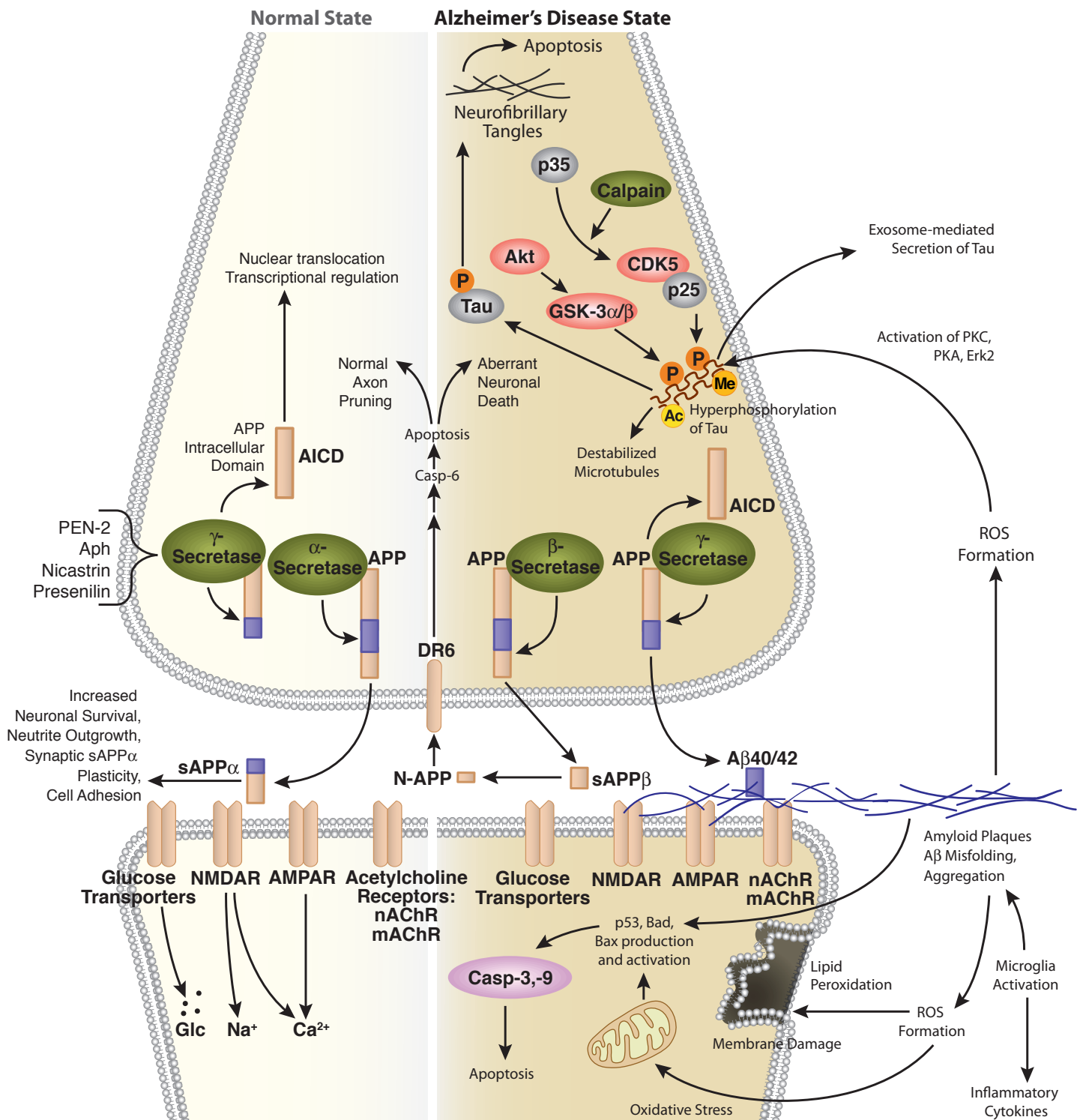
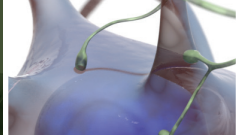


# Alzheimer's Disease Signaling Pathways

## Amyloid Plaque and Neurofibrillary Tangle Formation in Alzheimer's Disease





# Key Products for Alzheimer's Disease

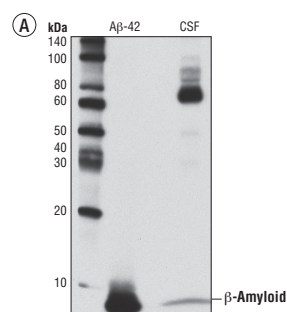
Visit [www.cellsignal.com/alzheimerslist](http://www.cellsignal.com/alzheimerslist) for full listing of antibodies, related kits, and reagents.

## ANTIBODIES

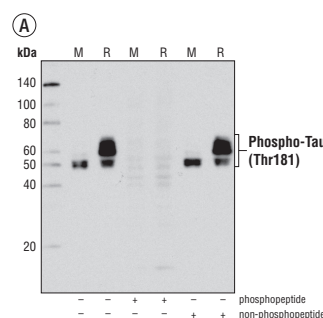
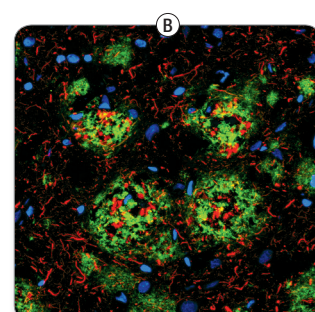
|                                                     | APPLICATIONS          | REACTIVITY                             |
|-----------------------------------------------------|-----------------------|----------------------------------------|
| #5831 AMPKα (D5A2) Rabbit mAb                       | WB, IP                | H, M, R, Mk, B                         |
| #2603 AMPKα (23A3) Rabbit mAb                       | WB                    | H, M, R, Mk                            |
| #2532 AMPKα Antibody                                | WB, IP                | H, M, R, Hm, Mk                        |
| #2793 AMPKα (F6) Mouse mAb                          | WB                    | H, M, R, Hm, Mk                        |
| #2535 Phospho-AMPKα (Thr172) (40H9) Rabbit mAb      | WB, IP, IHC-P         | H, M, R, Hm, Mk, Dm, Sc, (C, Z, B, Pg) |
| #2531 Phospho-AMPKα (Thr172) Antibody               | WB                    | H, M, R, Mk, (C, B, Pg)                |
| #2795 AMPKα1 Antibody                               | WB                    | H, Mk, (Pg)                            |
| #2537 Phospho-AMPKα1 (Ser485) (45F5) Rabbit mAb     | WB                    | H, M, R, Mk                            |
| #8243 β-Amyloid (D54D2) XP® Rabbit mAb              | WB, IP, IF-P          | H, M                                   |
| #9888 β-Amyloid (D12B2) Rabbit mAb                  | WB, IHC-P             | H, M                                   |
| #2454 β-Amyloid Antibody                            | WB, IHC-P, IF-P       | H, (R, B, Dg, Pg)                      |
| #15126 β-Amyloid (D3D2N) Mouse mAb                  | WB, IHC-P, IF-F       | H, M                                   |
| #12467 β-Amyloid (1-37 Specific) (D2A6H) Rabbit mAb | WB                    | H, (M, R, B)                           |
| #12990 β-Amyloid (1-40 Specific) (D8Q7I) Rabbit mAb | WB, IF-F              | H, (M, R, B)                           |
| #14974 β-Amyloid (1-42 Specific) (D9A3A) Rabbit mAb | WB, IF-F              | H, M, (R)                              |
| #14975 β-Amyloid (pE3 Peptide) (D5N5H) Rabbit mAb   | WB, IHC-P, IF-F       | H, M                                   |
| #12731 APBA2 (D8A6) Rabbit mAb                      | WB, IP                | H, M, R                                |
| #3350 ApoA1 (5F4) Mouse mAb                         | WB, IP                | H                                      |
| #13366 ApoE (pan) (D7I9N) Rabbit mAb                | WB, IP, IHC-P         | H                                      |
| #8941 ApoE4 (4E4) Mouse mAb                         | WB                    | H                                      |
| #2450 APP/β-Amyloid (NAB228) Mouse mAb              | WB, IHC-P, IF-P       | H, Mk, B, (Dg, Pg)                     |
| #2452 APP Antibody                                  | WB, IF-IC             | H, M, R, Mk                            |
| #6986 Phospho-APP (Thr668) (D90B8) Rabbit mAb       | WB, IP                | H, M, R                                |
| #5606 BACE (D10E5) Rabbit mAb                       | WB, IP, IF-F, IF-IC   | H, M, R                                |
| #3373 Cathepsin B (G60) Antibody                    | WB                    | H                                      |
| #3383 Cathepsin B (H190) Antibody (Mouse Preferred) | WB                    | H, M                                   |
| #5478 CD2AP (A599) Antibody                         | WB, IP, IF-IC         | H, M                                   |
| #24840 Cystatin C (D6U3E) Rabbit mAb                | WB, IP                | H                                      |
| #2877 FE65 Antibody                                 | WB                    | M, R, (H)                              |
| #14321 NAE1/APPBP1 (D9I4Z) Rabbit mAb               | WB                    | H, M, R, Mk, (B, Dg)                   |
| #9447 Nicastrin (D65G7) Rabbit mAb                  | WB, IP                | H, M, R, Mk                            |
| #8502 PEN2 (D2G6) Rabbit mAb                        | WB, IP                | H, M, R, Mk                            |
| #5643 Presenilin 1 (D39D1) Rabbit mAb               | WB, IP                | H, M, R, Mk                            |
| #9979 Presenilin 2 (D30G3) Rabbit mAb               | WB, IP                | H, M, R                                |
| #3480 Pyk2 (5E2) Mouse mAb                          | WB, IP                | H, M                                   |
| #3291 Phospho-Pyk2 (Tyr402) Antibody                | WB, IP                | H, M, (R)                              |
| #4019 Tau (Tau46) Mouse mAb                         | WB, IHC-P, IF-P, IF-F | H, M, R, (B)                           |
| #12885 Phospho-Tau (Thr181) (D9F4G) Rabbit mAb      | WB, IP, IHC-P         | H, M, R                                |
| #11834 Phospho-Tau (Ser202) Antibody                | WB                    | H, M, R                                |
| #9632 Phospho-Tau (Ser396) (PHF13) Mouse mAb        | WB                    | M, R, (H)                              |
| #11837 Phospho-Tau (Ser400/Thr403/Ser404) Antibody  | WB                    | H, M, R                                |
| #15013 Phospho-Tau (Ser416) (D7U2P) Rabbit mAb      | WB, IP, IHC-P         | H, M, R                                |
| #91068 TREM2 (D8I4C) Rabbit mAb                     | WB, IP, IF-IC         | H                                      |

## RELATED KITS AND ASSAYS

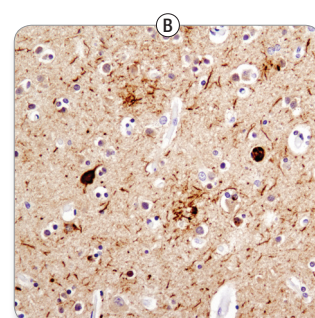
|                                                           |
|-----------------------------------------------------------|
| #9784 Alzheimer's Disease Antibody Sampler Kit            |
| #12592 β-Amyloid Peptides Antibody Sampler Kit            |
| #5887 γ Secretase Antibody Sampler Kit                    |
| #9839 AMPK Subunit Antibody Sampler Kit                   |
| #7959 PathScan® Phospho-AMPKα (Thr172) Sandwich ELISA Kit |



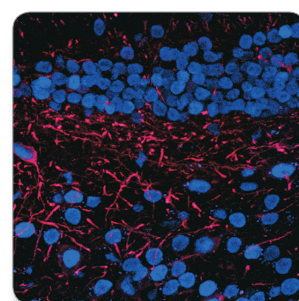
**β-Amyloid (D54D2) XP® Rabbit mAb #8243:** WB analysis of human Aβ-42 peptide (1 ng) and human cerebrospinal fluid (CSF) of an AD patient (A) using #8243. Confocal IF analysis of paraffin-embedded human Alzheimer's brain (B) using #8243 (green) and Tau (Tau46) Mouse mAb #4019 (red). Blue pseudocolor = DRAQ5® #4084 (fluorescent DNA dye).



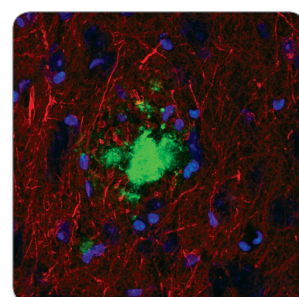
**Phospho-Tau (Thr181) (D9F4G) Rabbit mAb #12885:** WB analysis of extracts from mouse and rat brain (A) using #12885. The phospho-specificity of Phospho-Tau (Thr181) (D9F4G) Rabbit mAb was verified by peptide blocking using a phosphopeptide or non-phosphopeptide targeting residue Thr181. IHC analysis of paraffin-embedded human Alzheimer's brain (B) using #12885.



**Tau (Tau46) Mouse mAb #4019:** Confocal IF analysis of mouse dentate gyrus stained with #4019 (red) and CREB (86B10) Mouse mAb #9104 (blue).



**β-Amyloid (1-42 Specific) (D9A3A) Rabbit mAb #14974:** IF analysis of Tg2576 mouse model of Alzheimer's brain using #14974 (green) and β3-Tubulin (TU-20) Mouse mAb #4466 (red). Blue pseudocolor = DRAQ5® #4084 (fluorescent DNA dye).



**APPLICATIONS & REACTIVITY KEY:** WB Western Blotting / IP Immunoprecipitation / IHC Immunohistochemistry / IF Immunofluorescence / F Flow Cytometry / ChIP Chromatin Immunoprecipitation / -IC Immunocytochemistry / -P Paraffin / -F Frozen / E-P Peptide ELISA / H human / M mouse / R rat / Hm hamster / Mk monkey / C chicken / Mi mink / Dm D. melanogaster / X Xenopus / Z zebra fish / B bovine / Dg dog / Pg pig / Sc S. cerevisiae / All all species expected / ( ) 100% sequence homology

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