## β-Amyloid (1-42 Specific) Antibody



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force or effect.

| Applications:<br>W                           | Reactivity:<br>H        | <b>Sensitivity:</b><br>Recombinant   | <b>MW (kDa):</b><br>4  | <b>Source/Isotype:</b><br>Rabbit   | UniProt ID:<br>#P05067  | Entrez-Gene Id:<br>351  |
|--|-------------------------|--|--|--|---|---|
| Product Usage<br>Information                 |                         | <b>Application</b> Western Blotting  |  |  | <b>Dilution</b> 1:1000  |   |
| Storage                                      |                         | Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.  |  |  |   |   |
| Specificity/Sensitivity                      |                         | $\beta\text{-Amyloid}$ (1-42 Specific) Antibody recognizes the A $\beta$ -42 isoform of the $\beta$ -amyloid peptides.   |  |  |   |   |
| Species predict<br>based on 100%<br>homology | ed to react<br>sequence | Mouse, Rat, Monkey   |  |  |   |   |
| Source / Purification                        |                         | Polycolonal antibodies are produced by immunizing rabbits with a synthetic peptide corresponding to residues at the carboxy terminus of human $\beta$ -amyloid (1-42) peptide. Antibodies are purified by protein A and peptide affinity chromatography.   |  |  |   |   |
| Background                                   |                         | several isoforms (1). T<br>released by a two-ste<br>released Aβ fragment<br>can be phosphorylate<br>this protein (2-5). Pho<br>cyclin-dependent kina   | The amino acid seques proteolytic cleavants form the main court at several sites, which at the seques is cell-cycle deposed. | a 100-140 kDa transmen<br>uence of APP contains th<br>ge (1). The extracellular<br>mponents of amyloid pla<br>which may affect the proto<br>668 (a position correspo<br>endent and peaks during<br>crelates with cultured ne | e amyloid domain,<br>deposition and accu<br>aques in Alzheimer'<br>teolytic processing a<br>nding to the APP69<br>g G2/M phase (4). A | which can be<br>umulation of the<br>is disease (1). APP<br>and secretion of<br>5 isoform) by<br>PP phosphorylated |
| Background References                        |                         | <ol> <li>Selkoe, D.J. (1996) J Biol Chem 271, 18295-8.</li> <li>Caporaso, G.L. et al. (1992) Proc Natl Acad Sci USA 89, 3055-9.</li> <li>Hung, A.Y. and Selkoe, D.J. (1994) EMBO J 13, 534-42.</li> <li>Suzuki, T. et al. (1994) EMBO J 13, 1114-22.</li> <li>Ando, K. et al. (1999) J Neurosci 19, 4421-7.</li> <li>Iijima, K. et al. (2000) J Neurochem 75, 1085-91.</li> </ol>  |  |  |   |   |
| Species Reactiv                              | /ity                    | Species reactivity is de   | etermined by testin  | g in at least one approve  | ed application (e.g.,   | western blot).  |
| Western Blot Buffer                          |                         | IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.   |  |  |   |   |
| Applications Key                             |                         | W: Western Blotting  |  |  |   |   |
| Cross-Reactivity Key                         |                         | H: Human   |  |  |   |   |
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