β -Amyloid (1-37 Specific) (D2A6H) Rabbit mAb

✓ 100 μl (10 western blots)



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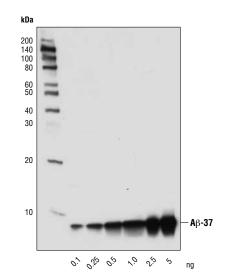
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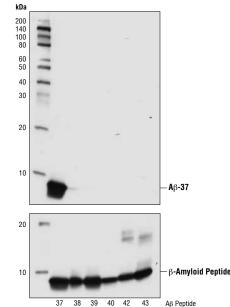
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Applications Species Cross-Reactivity* Molecular Wt. Isotype H, (M, R, Mk, B) 4 kDa Rabbit IgG** Endogenous

Background: Amyloid β (A β) precursor protein (APP) is a 100-140 kDa transmembrane glycoprotein that exists as several isoforms (1). The amino acid sequence of APP contains the amyloid domain, which can be released by a two-step proteolytic cleavage (1). The extracellular deposition and accumulation of the released Aß fragments form the main components of amyloid plagues in Alzheimer's disease (AD) (1). APP can be phosphorylated at several sites, which may affect the proteolytic processing and secretion of this protein (2-5). Phosphorylation at Thr668 (a position corresponding to the APP695 isoform) by cyclin-dependent kinase is cell-cycle dependent and peaks during G2/M phase (4). APP phosphorylated at Thr668 exists in adult rat brain and correlates with cultured neuronal differentiation (5,6).



Western blot analysis of the indicated amounts of human AB-37 peptide using β-Amyloid (1-37 Specific) (D2A6H) Rabbit mAb.



Western blot analysis of human AB-37, AB-38, AB-39, AB-40. $A\beta$ -42, and $A\beta$ -43 peptides (10 ng) using β -Amyloid (1-37 Specific) (D2A6H) Rabbit mAb (upper) or β -Amyloid (D54D2) XP® Rabbit mAb #8243 (lower).

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Specificity/Sensitivity: β-Amyloid (1-37 Specific) (D2A6H) Rabbit mAb recognizes the Aβ-37 isoform of the β -amyloid peptides. This antibody does not cross-react with other \(\beta\)-amyloid peptides.

Source/Purification: Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues at the carboxy terminus of human β -amyloid (1-37) peptide.

Western blot analysis of brain extracts from 13-month old

Entrez-Gene ID #351 Swiss-Prot Acc. #P05067

Storage: Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

*Species cross-reactivity is determined by western blot.

**Anti-rabbit secondary antibodies must be used to detect this antibody.

Recommended Antibody Dilutions:

Western blotting

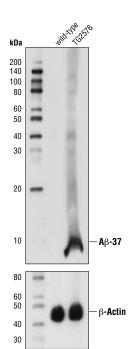
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For product specific protocols please see the web page for this product at www.cellsignal.com.

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Background References:

- (1) Selkoe, D.J. (1996) J Biol Chem 271, 18295-8.
- (2) Caporaso, G.L. et al. (1992) Proc Natl Acad Sci USA 89,
- (3) Hung, A.Y. and Selkoe, D.J. (1994) EMBO J 13, 534-42.
- (4) Suzuki, T. et al. (1994) EMBO J 13, 1114-22.
- (5) Ando, K. et al. (1999) J Neurosci 19, 4421-7.
- (6) lijima, K. et al. (2000) J Neurochem 75, 1085-91.



wild-type and TG2576 mice using β -Amyloid (1-37 Specific) (D2A6H) Rabbit mAb (upper) or β-Actin (D6A8) Rabbit mAb #8457 (lower).

IMPORTANT: For western blots, incubate membrane with diluted antibody in 5% w/v BSA, 1X TBS, 0.1% Tween-20 at 4°C with gentle shaking, overnight.