Revision 1

Store at -20C

#12467

β-Amyloid (1-37) (D2A6H) Rabbit mAb

Cell Signaling TECHNOLOGY®

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	H	Endogenous	4	Rabbit IgG	#P05067	351

Product Usage Information

Application	Dilution
Western Blotting	1:1000

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.

Specificity/Sensitivity

β-Amyloid (1-37) (D2A6H) Rabbit mAb recognizes the Aβ-37 isoform of the β-amyloid peptides. This antibody does not cross-react with other β-amyloid peptides.

Species predicted to react based on 100% sequence homology

Mouse, Rat, Monkey, Bovine

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.

Background

Amyloid β (Aβ) 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 Aβ fragments form the main components of amyloid plaques in Alzheimer's disease (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).

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, 3055-9.
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. Iijima, K. et al. (2000) *J Neurochem* 75, 1085-91.

Species Reactivity

Species reactivity is determined by testing in at least one approved 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

Trademarks and Patents

Limited Uses

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