Revision 1

Store at -20C

#12592

β-Amyloid Peptides Antibody Sampler Kit

Cell Signaling TECHNOLOGY®

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Product Includes	Product #	Quantity	Mol. Wt	Isotype/Source
β-Amyloid (D54D2) XP® Rabbit mAb	8243	40 µl	5 kDa	Rabbit IgG
β-Amyloid (1-37) (D2A6H) Rabbit mAb	12467	40 µl	4 kDa	Rabbit IgG
β-Amyloid (1-39) (D5Y9L) Rabbit mAb	12077	40 µl	4 kDa	Rabbit IgG
β-Amyloid (1-40) (D8Q7I) Rabbit mAb	12990	40 µl	4 kDa	Rabbit IgG
β-Amyloid (1-42) (D3E10) Rabbit mAb	12843	40 µl	4 kDa	Rabbit
Anti-rabbit IgG, HRP-linked Antibody	7074	100 µl		Goat

Please visit cellsignal.com for individual component applications, species cross-reactivity, dilutions, protocols, and additional product information.

Description

The β-Amyloid Peptides Antibody Sampler Kit provides an economical means of detecting the various recombinant Aβ peptides as well as endogenous levels of total β-amyloid. The kit contains enough primary antibody to perform four western blots per primary.

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.

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.

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