antibodies

Datasheet for ABIN7317786 Abeta 1-42 Protein (GST tag,His tag)



Overview	
Quantity:	100 µg
Target:	Abeta 1-42
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This Abeta 1-42 protein is labelled with GST tag, His tag.
Product Details	
Purpose:	Recombinant Human Beta-amyloid 42/Beta-APP42 Protein (His & GST Tag)
Sequence:	Recombinant Human Beta-amyloid 42/Beta-APP42 Protein (His & GST Tag) Asp672-Ala713
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Sequence:	Asp672-Ala713 A DNA sequence encoding the amino acids (Asp672-Ala713) of human Amyloid beta A4 protein (APP770) (P05067-1), corresponding to the Beta-amyloid protein 42, was fused with the N-
Sequence: Characteristics:	Asp672-Ala713 A DNA sequence encoding the amino acids (Asp672-Ala713) of human Amyloid beta A4 protein (APP770) (P05067-1), corresponding to the Beta-amyloid protein 42, was fused with the N- terminal polyhistidine-tagged GST tag at the N-terminus.

Target:	Abeta 1-42
Alternative Name:	Beta-amyloid 42 (Abeta 1-42 Products)
Background:	Background: Amyloid precursor protein (APP) is a type I transmembrane protein expressed in
	many tissues and concentrated in the synapses of neurons; and is suggested as a regulator of

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/3 | Product datasheet for ABIN7317786 | 11/30/2023 | Copyright antibodies-online. All rights reserved. synapse formation and neural plasticity. APP can be processed by two different proteolytic pathways. In one pathway; APP is cleaved by β - and y-secretase to produce the amyloid- β protein (Aβ; Abeta; beta-amyloid) which is the principal component of the amyloid plaques; the major pathological hallmark of Alzheimer's disease (AD); while in the other pathway; asecretase is involved in the cleavage of APP whose product exerts antiamyloidogenic effect and prevention of the AB peptide formation. The aberrant accumulation of aggregated betaamyloid peptides (Abeta) as plaques is a hallmark of AD neuropathology and reduction of Abeta has become a leading direction of emerging experimental therapies for the disease. Besides this pathological function of Abeta; recently published data reveal that Abeta also has an essential physiological role in lipid homeostasis. Cholesterol increases Abeta production; and conversely A beta production causes a decrease in cholesterol synthesis. Abeta may be part of a mechanism controlling synaptic activity; acting as a positive regulator presynaptically and a negative regulator postsynaptically. The pathological accumulation of oligomeric Abeta assemblies depresses excitatory transmission at the synaptic level; but also triggers aberrant patterns of neuronal circuit activity and epileptiform discharges at the network level. Abetainduced dysfunction of inhibitory interneurons likely increases synchrony among excitatory principal cells and contributes to the destabilization of neuronal networks. There is evidence that beta-amyloid can impair blood vessel function. Vascular beta-amyloid deposition; also known as cerebral amyloid angiopathy; is associated with vascular dysfunction in animal and human studies. Alzheimer disease is associated with morphological changes in capillary networks; and soluble beta-amyloid produces abnormal vascular responses to physiological and pharmacological stimuli.

Synonym: AAA;ABETA;ABPP;AD1;APPI;CTFgamma;CVAP;PN-II;PN2

Molecular Weight:

32.4 kDa

Application Details

Comment:	34 kDa
Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from sterile PBS, 10 % glycerol, pH 7.4

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Handling	
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted
	samples are stable at < -20°C for 3 months.

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