Datasheet for ABIN7138900

anti-APP antibody (pThr743)

3 Images

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Overview

Quantity:	100 µL
Target:	APP
Binding Specificity:	pThr743
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This APP antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Immunofluorescence (IF)

Product Details

Immunogen:	Peptide sequence around phosphorylation site of threonine743 /668 (A-V-T(p)-P-E) derived from Human Amyloid beta A4.
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Purification:	Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatogramphy usi

Target Details

Target:	APP
Alternative Name:	APP (APP Products)

Target Details

Background:	Background: Functions as a cell surface receptor and performs physiological functions on the surface of neurons relevant to neurite growth, neuronal adhesion and axonogenesis. Involved in cell mobility and transcription regulation through protein-protein interactions. Can promote transcription activation through binding to APBB1-KAT5 and inhibits Notch signaling through interaction with Numb. Couples to apoptosis-inducing pathways such as those mediated by G(O) and JIP. Inhibits G(o) alpha ATPase activity By similarity. Acts as a kinesin I membrane receptor, mediating the axonal transport of beta-secretase and presenilin 1. Ming-Sum Lee J. Cell Biol., Oct 2003, 163: 83.Tadashi Nakaya and Toshiharu Suzuki Genes Cells, Jun 2006, 11: 633 - 645Keun-A Chang, Mol. Cell. Biol., Jun 2006, 26: 4327 ?C 4338.Thor D. Stein J. Neurosci., Sep 2004, 24: 7707 - 7717 Aliases: A4 antibody, A4_HUMAN antibody, AAA antibody, ABETA antibody, ABPP antibody, AICD-50 antibody, AICD-57 antibody, AICD-59 antibody, AID(50) antibody, AID(57) antibody, AID(59) antibody, Alzheimer disease amyloid protein antibody, Amyloid intracellular domain 50 antibody, Amyloid intracellular domain 57 antibody, Amyloid intracellular domain 59 antibody, APP antibody, APPI antibody, Beta amyloid protein 42 antibody, Beta APP42 antibody, Beta-APP40 antibody, Beta-APP42 antibody, C31 antibody, Cerebral vascular amyloid peptide antibody, CVAP antibody, Gamma-CTF(50) antibody, Gamma-CTF(57) antibody, Gamma-CTF(59) antibody, PN-II antibody, PreA4 antibody, Protease nexin-II antibody, S-APP-alpha antibody, S-APP-beta antibody
UniProt:	P05067
Pathways:	Caspase Cascade in Apoptosis, EGFR Signaling Pathway, Transition Metal Ion Homeostasis, Skeletal Muscle Fiber Development, Toll-Like Receptors Cascades, Feeding Behaviour

Application Details

Application Notes:	WB:1:500-1:1000, IHC:1:50-1:100, IF:1:100-1:200,
Restrictions:	For Research Use only

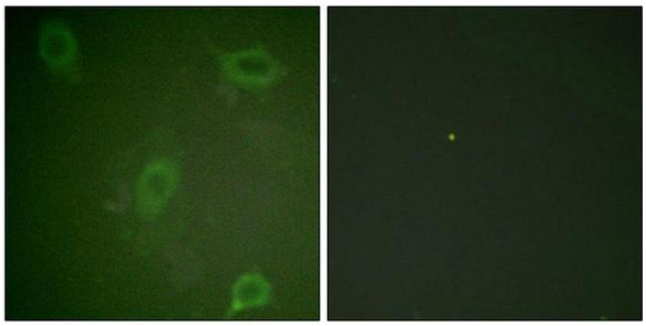
Handling

Format:	Liquid
Buffer:	Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 % glycerol.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which

Handling

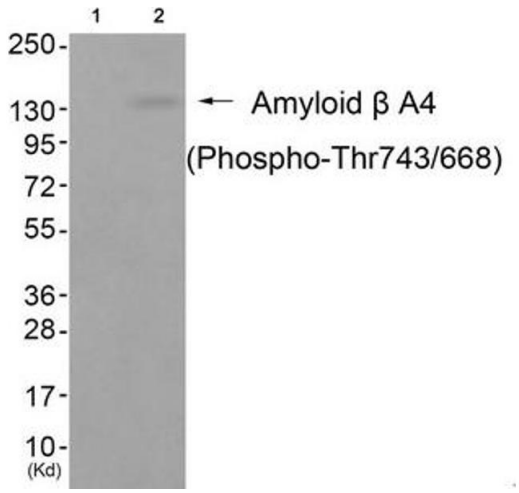
	should be handled by trained staff only.
Storage:	-20 °C,-80 °C
Storage Comment:	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.

Images



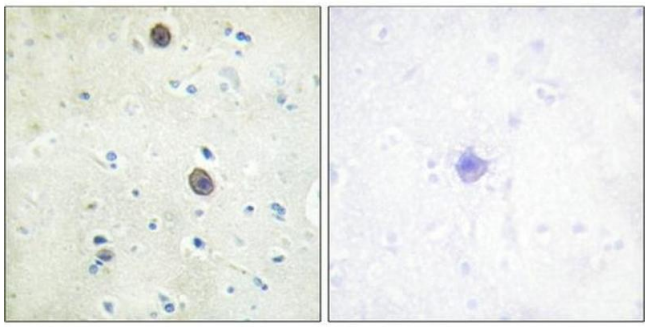
Immunofluorescence

Image 1. Immunofluorescence staining of methanol-fixed HeLa cells using Amyloid β A4 (phospho-Thr743/668) Antibody.



Western Blotting

Image 2. Western blot analysis of extracts from cos-7 cells (Lane 2), using Amyloid β A4 (Phospho-Thr743/668) Antibody. The lane on the left is treated with antigen-specific peptide.



Immunohistochemistry

Image 3. Immunohistochemical analysis of paraffin-embedded human brain tissue using Amyloid β A4 (phospho-Thr743/668) antibody (left)or the same antibody preincubated with blocking peptide (right).