

Datasheet for ABIN7127338

Recombinant anti-APP antibody

Images



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Quantity:	100 μL	
Target:	APP	
Reactivity:	Human	
Host:	Rabbit	
Antibody Type:	Recombinant Antibody	
Clonality:	Monoclonal	
Conjugate:	This APP antibody is un-conjugated	
Application:	Western Blotting (WB), ELISA, Immunofluorescence (IF)	
Product Details		
Immunogen:	A synthesized peptide derived from human Amyloid beta A4	
Clone:	6F10	
Isotype:	IgG	
Cross-Reactivity:	Human, Mouse, Rat	
Purification:	Affinity-chromatography	
Target Details		
Target:	APP	
Alternative Name:	APP (APP Products)	
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(0) 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. Involved in copper homeostasis/oxidative stress through copper ion reduction. In vitro, copper-metallated APP induces neuronal death directly or is potentiated through Cu(2+)-mediated low-density lipoprotein oxidation. Can regulate neurite outgrowth through binding to components of the extracellular matrix such as heparin and collagen I and IV. The splice isoforms that contain the BPTI domain possess protease inhibitor activity. Induces a AGER-dependent pathway that involves activation of p38 MAPK, resulting in internalization of amyloid-beta peptide and leading to mitochondrial dysfunction in cultured cortical neurons. Provides Cu(2+) ions for GPC1 which are required for release of nitric oxide (NO) and subsequent degradation of the heparan sulfate chains on GPC1.

Aliases: Amyloid-beta A4 protein (ABPP) (APPI) (APP) (Alzheimer disease amyloid protein) (Amyloid precursor protein) (Amyloid-beta precursor protein) (Cerebral vascular amyloid peptide) (CVAP) (PreA4) (Protease nexin-II) (PN-II) [Cleaved into: N-APP, Soluble APP-alpha (S-APP-alpha), Soluble APP-beta (S-APP-beta), C99 (Beta-secretase C-terminal fragment) (Beta-CTF), Amyloid-beta protein 42 (Abeta42) (Beta-APP42), Amyloid-beta protein 40 (Abeta40) (Beta-APP40), C83 (Alpha-secretase C-terminal fragment) (Alpha-CTF), P3(42), P3(40), C80, Gamma-secretase C-terminal fragment 59 (Amyloid intracellular domain 59) (AICD-59) (AID(59)) (Gamma-CTF(59)), Gamma-secretase C-terminal fragment 50 (Amyloid intracellular domain 50) (AICD-57) (AID(57)) (Gamma-CTF(57)), Gamma-secretase C-terminal fragment 50 (Amyloid intracellular domain 50) (AICD-50) (AID(50)) (Gamma-CTF(50)), C31], APP, A4 AD1

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:

Recommended dilution: WB:1:500-1:5000, IF:1:20-1:200,

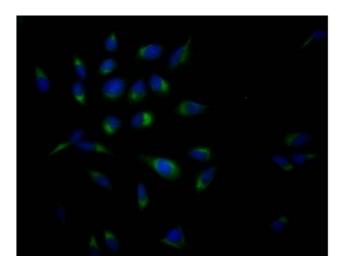
Restrictions:

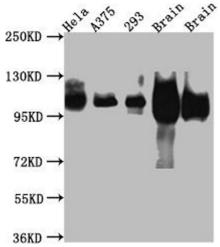
For Research Use only

Handling

Format:	Liquid
Buffer:	Rabbit IgG in phosphate buffered saline, 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 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 Hela Cells with ABIN7127338 at 1:50, counter-stained with DAPI. The cells were fixed in 4% formaldehyde, permeated by 0.2% TritonX-100, and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4°C. Nuclear DNA was labeled in blue with DAPI. The secondary antibody was FITC-conjugated AffiniPure Goat Anti-Rabbit IgG (H+L).

Western Blotting

Image 2. Western Blot Positive WB detected in: Hela whole cell lysate, A375 whole cell lysate, HEK293 whole cell lysate, Rat Brain whole cell lysate, Mouse Brain whole cell lysate All lanes: Amyloid beta A4 antibody at 1:1000 Secondary Goat polyclonal to rabbit IgG at 1/50000 dilution Predicted band size: 87, 35, 77, 79, 79, 81, 83, 85, 86, 73, 85 kDa Observed band size: 100 kDa