APP Recombinant Antibody

RACO0496

Product Information

Size:

50ul

Reactivity:

Human, Mouse, Rat

Source:

Homo sapiens (Human)

Isotype:

Rabbit IgG

Applications:

ELISA, WB, IF

Recommended dilutions:

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

Protein 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. 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.

Gene ID:

APP

Uniprot

P05067

Synonyms:

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)

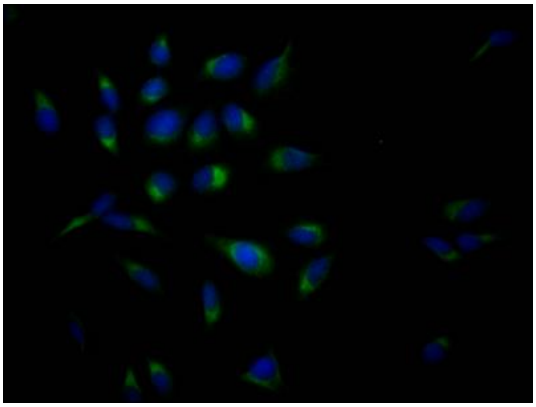
Immunogen:

A synthesized peptide derived from human Amyloid beta A4.

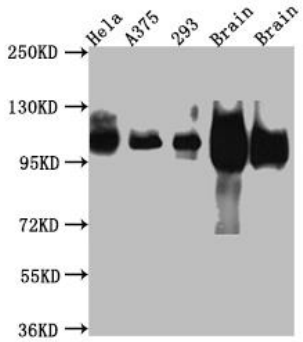
Storage:

Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.

Product Images



Immunofluorescence staining of Hela Cells with RACO0496 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 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