

APP antibody

Product Information

Catalog No.:	FNab00513
Size:	100µg
Form:	liquid
Purification:	Protein A+G purification
Purity:	≥95% as determined by SDS-PAGE
Host:	Mouse
Clonality:	monoclonal
Clone ID:	8B9
IsoType:	IgG2a
Storage:	PBS with 0.02% sodium azide and 50% glycerol pH 7.3, -20°C for 12 months(Avoid repeated freeze / thaw cycles.)

Background

Beta-amyloid peptides are lipophilic metal chelators with metal-reducing activity. Bind transient metals such as copper, zinc and iron. In vitro, can reduce Cu(2+) and Fe(3+) to Cu(+) and Fe(2+), respectively. Beta-amyloid 42 is a more effective reductant than beta-amyloid 40. Beta-amyloid peptides bind to lipoproteins and apolipoproteins E and J in the CSF and to HDL particles in plasma, inhibiting metal-catalyzed oxidation of lipoproteins. Beta-APP42 may activate mononuclear phagocytes in the brain and elicit inflammatory responses. Promotes both tau aggregation and TPK II-mediated phosphorylation. Interaction with overexpressed HADH2 leads to oxidative stress and neurotoxicity. Also binds GPC1 in lipid rafts. The gamma-CTF peptides as well as the caspase-cleaved peptides, including C31, are potent enhancers of neuronal apoptosis.

Immunogen information

Immunogen:	amyloid beta A4 precursor protein
Synonyms:	Amyloid-beta precursor protein (APP) ABPP APPI Alzheimer disease amyloid A4 protein homolog Alzheimer disease amyloid protein Amyloid precursor protein Amyloid-beta (A4) precursor protein Amyloid-beta A4 protein Cerebral vascular amyloid peptide (CVAP) PreA4 Protease nexin-II (PN-II) N-APP Soluble APP-alpha (S-APP-alpha) Soluble APP-beta (S-APP-beta) C99 Alternative names: Beta-secretase C-terminal fragment (Beta-CTF) Amyloid-beta protein 42 (Abeta42) Alternative names: Beta-APP42 Amyloid-beta protein 40 (Abeta40) Alternative names: Beta-APP40 C83 Alternative names:

Alpha-secretase C-terminal fragment (Alpha-CTF)|P3(42)|P3(40)|C80|Gamma-secretase C-terminal fragment 59
 Alternative names: Amyloid intracellular domain 59 (AICD-59, AID(59))|Gamma-CTF(59)|Gamma-secretase C-terminal fragment 57
 Alternative names: Amyloid intracellular domain 57 (AICD-57, AID(57))|Gamma-CTF(57)|Gamma-secretase C-terminal fragment 50
 Alternative names: Amyloid intracellular domain 50 (AICD-50, AID(50))|Gamma-CTF(50)|C31|APP|A4|AD1

Observed MW: 100 kDa

Uniprot ID : P05067

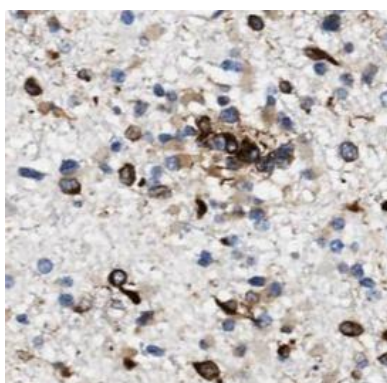
Application

Reactivity: Human, Pig

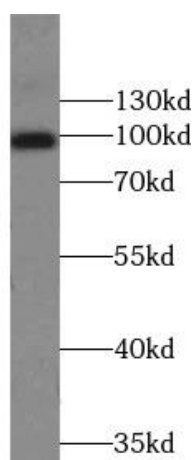
Tested Application: ELISA, WB, IHC

Recommended dilution: WB: 1:500-1:2000; IHC: 1:50-1:500

Image:



Immunohistochemistry of paraffin-embedded human gliomas tissue slide using FNab00513(APP Antibody) at dilution of 1:200



HEK-293 cells were subjected to SDS PAGE followed by western blot with FNab00513(APP Antibody) at dilution of 1:1000