

Datasheet for ABIN7126552
anti-APP antibody (AA 578-680)



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Overview

Quantity:	100 µg
Target:	APP
Binding Specificity:	AA 578-680
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This APP antibody is un-conjugated
Application:	Immunohistochemistry (Formalin-fixed Sections) (IHC (f))

Product Details

Immunogen:	Recombinant fragment (around aa578-680) of human Amyloid Beta protein (exact sequence is proprietary)
Isotype:	IgG2b
Specificity:	Proteolytic cleavage of the Amyloid protein precursor (APP) gives rise to the i²-Amyloid and Amyloid A4 proteins, which are present in human platelets. Amyloid deposition is associated with type II diabetes, Down syndrome and a variety of neurological disorders, including Alzheimer s disease. The Amyloid precursor protein (APP) undergoes alternative splicing, resulting in several isoforms. Proteolytic cleavage of APP leads to the formation of the 4 kDa Amyloid i²/A4 Amyloid protein. This protein is involved in the formation of neurofibrillary tangles and plaques that characterize the senile plaques of Alzheimer s patients. APLP1 (Amyloid precursor-like protein 1) and APLP2 are structurally similar to APP. Human APLP2 is a membrane-bound sperm protein that contains a region highly homologous to the

Product Details

	transmembrane-cytoplasmic domains of APP found in brain plaques of Alzheimer s disease patients.
Cross-Reactivity (Details):	Human.
Purification:	1.0mg/ml of Ab purified from Bioreactor by Protein A/G.

Target Details

Target:	APP
Alternative Name:	APP (APP Products)
Background:	CVAP, AAA, AICD-50, PN2, 50, Beta-APP42, AID, S-APP-alpha, 57, AD1, PN-II, Beta-APP40, 42, 40, APPI, Alzheimer disease amyloid protein, PreA4, ABETA, Amyloid intracellular domain 50, 57, 59 AICD-59, S-APP-beta, APP, AICD-57, ABPP, Protease nexin-II, Cerebral vascular amyloid peptide,beta Amyloid Cellular localisation: Membrane. Membrane > clathrin-coated pit. Cell surface protein that rapidly becomes internalized via clathrin-coated pits.
Molecular Weight:	4-46kDa (i ² -Amyloid), 100-125kDa (Amyloid A4)
Gene ID:	351, 434980
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:	Known_Application: Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 30 minutes at RT),(Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95 &degC followed by cooling at RT for 20 minutes),Optimal dilution for a specific application should be determined. Positive_Control: Alzheimer's disease brain. Amyloidosis.
Restrictions:	For Research Use only

Handling

Concentration:	1.0 mg/mL
Buffer:	Prepared in 10 mM PBS, WITHOUT BSA and Azide.

Handling

Preservative:	Azide free
Storage:	-20 °C,-80 °C
Storage Comment:	Antibody without azide - store at -20 to -80 °C. Antibody is stable for 24 months. Non-hazardous.
Expiry Date:	24 months