Anti-Amyloid Precursor Protein

Catalog Number: 144-APP  Size: 100 µl

Product Description: Affinity purified rabbit polyclonal antibody

Applications: WB: 1:1000

Antigen: Peptide corresponding to amino acid residues from the C-terminal region of rat APP.

Species Reactivity: The antibody has been directly tested for reactivity in rat tissue. It is anticipated that the antibody will also work with canine, chicken, human, mouse and non-human primate tissues based on the fact that these species have 100% homology with the amino acid sequence used as antigen.

Biological Significance: A large body of evidence has implicated the amyloid precursor protein (APP) in the pathogenesis of Alzheimer's disease (AD) (Kamenetz et al., 2003). The phosphorylation of APP at Thr$^{668}$ is thought to play a critical role in generation of the soluble APP (beta) and beta-amyloid peptide (abeta) which are the major components of senile plaques in patient brains inflicted with AD (Liu et al., 2003; Ando et al., 2001).

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Western blot of rat hippocampal lysate showing specific immunolabeling of the ~115k APP protein.

Purification Method: Prepared from rabbit serum by affinity purification on a column made with the C-terminal peptide used as antigen.

Antibody Specificity: Specific for ~115k APP protein. Immunolabeling of the APP protein band is completely blocked by preadsorption of the antibody with the peptide used as antigen.

WB = Western Blot  IF = Immunofluorescence  IHC = Immunohistochemistry  IP = Immunoprecipitation

Packaging: 100 µl in 10 mM HEPES (pH 7.5), 150 mM NaCl, 100 µg per ml BSA and 50% glycerol. Adequate amount of material to conduct 10-mini Western Blots.

Storage and Stability: Store at –20°C; stable for at least one year.

Shipment: Domestic - Blue Ice; International - Blue Ice or Dry Ice.
Quality Control Tests: Western blots performed on each lot.

References: