

## RABBIT ANTI-APP phosphoThreonine 668 POLYCLONAL ANTIBODY

**CATALOG NUMBER:** AB9670

**LOT NUMBER:**

**QUANTITY:** 20  $\mu$ L (2 blots)

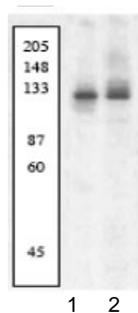
**CONCENTRATION:** 0.43  $\mu$ g/mL

**SPECIFICITY:** APP (Alzheimer's precursor protein) phosphoThreonine 668. The antibody recognizes APP pThreonine 668 in samples of CAD cells transfected with wild type APP.

**BACKGROUND:** Amyloid  $\beta$  (A4) Precursor Protein (APP) is a ubiquitously expressed transmembrane protein that is sequentially cleaved by  $\beta$ -secretase and  $\gamma$ -secretase to release extracellular peptides such as the  $\beta$ -amyloid peptides, which are deposited in the brain in Alzheimer's disease. APP exists in several isoforms ranging from 100-140 kDa, and is phosphorylated on various residues within the extracellular and cytoplasmic domains, effecting the proteolytic processing and secretion of the protein. Threonine 668 can be phosphorylated by cyclin-dependent kinase 5 (cdk5), GSK-3 $\beta$  and JNK, and may play an important role in neurite outgrowth of differentiating neurons.

**IMMUNOGEN:** Synthetic peptide of amino acids surrounding the phosphoThreonine 668 site of human APP (corresponding to the APP695 isoform).

**APPLICATIONS:** Western blot: 0.1-1.0  $\mu$ g/mL. Suggested blocking buffer is 5% BSA-TBST overnight at 2-8°C. Suggested antibody dilution buffer is 3% BSA-TBST. Suggested antibody incubation time is 2 hours at room temperature.



Western Blot of 1) wild type APP expressed in CAD cells probed with a pan specific APP antibody and 2) wild type APP expressed in CAD cells probed with AB9670.

Optimal working dilutions must be determined by the end user.

**SPECIES REACTIVITIES:** Human. Other species have not been tested. The immunogen is conserved in rat, mouse and frog.



- FORMAT:** Affinity purified immunoglobulin
- PRESENTATION:** Liquid in Dulbecco's PBS (without Mg<sup>2+</sup> and Ca<sup>2+</sup>), pH 7.3, 50% glycerol with 1.0 mg/mL BSA and 0.05% sodium azide.
- STORAGE/HANDLING:** Maintain at -80°C in undiluted for up to 6 months after date of receipt. Avoid repeated freeze/thaw cycles. Do not store in a self defrosting freezer.
- RELATED REFERENCES:** Tarr, P.E., et al. (2002) Tyrosine phosphorylation of the beta-amyloid precursor protein cytoplasmic tail promotes interaction with Shc. *J. Biol. Chem.* 277(19):16798-16804.  
Ando, K., et al. (2001) Phosphorylation-dependent regulation of the interaction of amyloid precursor protein with Fe65 affects the production of  $\beta$ -amyloid. *J. Biol. Chem.* 276(43):40353-40361.  
Standen, C.L., et al. (2001) Phosphorylation of thr(668) in the cytoplasmic domain of the Alzheimer's disease amyloid precursor protein by stress-activated protein kinase 1b (Jun N-terminal kinase-3). *J. Neurochem.* 76(1):316-320.  
Selkoe, D.J. (1998) The cell biology of beta-amyloid precursor protein and presenilin in Alzheimer's disease. *Trends Cell. Biol.* 8(11):447-453.

**Important Note:** *During shipment, small volumes of product will occasionally become entrapped in the seal of the product vial. For products with volumes of 200  $\mu$ L or less, we recommend gently tapping the vial on a hard surface or briefly centrifuging the vial in a tabletop centrifuge to dislodge any liquid in the container's cap.*

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PROCEDURES. NOT FOR HUMAN OR ANIMAL CONSUMPTION

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