



## Affinity-purified Rabbit Anti-human APP<sup>+1</sup> Antibody

### ORDERING INFORMATION

**Catalog Number:** AF850

**Lot Number:** CTM02

**Size:** 50 µg

**Formulation:** 0.2 µm filtered solution in PBS

**Storage:** -20° C

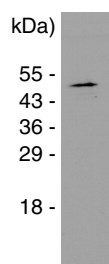
**Reconstitution:** sterile PBS

**Specificity:** human APP<sup>+1</sup>

**Immunogen:** human APP<sup>+1</sup>

**Ig Type:** rabbit IgG

**Application:** Western blot



Immunoblot of SDS-solubilized partially purified recombinant human APP<sup>+1</sup>. Samples were electrophoresed on 15% gels and immunoblotting was with 0.5 µg/mL anti-APP<sup>+1</sup>. A one minute exposure is shown.

### Preparation

Rabbits were immunized with the KLH coupled synthetic peptide CMRMGRGRTSSKELA. The peptide corresponds to the novel carboxyl terminus of a +1 frameshift mutant of amyloid precursor protein (APP<sup>+1</sup>) and is not present in normal APP (van Leeuwen, F.W. *et al.*, 1998, *Science* **279**:242). Cysteine was added to the amino terminus for conjugation to affinity matrix. Polyclonal antibody was affinity-purified on a column derivitized with the peptide.

### Formulation

Lyophilized from a 0.2 µm filtered solution in phosphate-buffered saline (PBS).

### Reconstitution

Reconstitute in 100 µL of PBS containing 0.02% NaN<sub>3</sub>.

### Storage

Avoid repeated freezing and thawing by aliquoting smaller portions of the reconstituted antibody into Eppendorf tubes and storing at -20° C in a manual defrost freezer.

### Specificity

The antibody detects human APP<sup>+1</sup>.

### Application

**Western blot** - An antibody concentration of 0.5 µg/mL is recommended.

### Protocols for Immunoblotting

#### Western blotting

<u>Blotting buffer</u>	<u>Blocking solution</u>	<u>Antibody solution</u>
25 mM Tris, pH 7.5	2% nonfat dry milk in blotting buffer	1% nonfat dry milk in blotting buffer
0.15 M NaCl	pH to 7.5	pH to 7.5
0.05% Tween 20		

1. Transfer the electrophoresed proteins to Immobilon filters (Millipore) and incubate the membrane for 1 hour at room temperature in blocking solution.
2. Incubate the membrane overnight in antibody solution containing 0.5 µg/mL rabbit anti-human APP<sup>+1</sup>.
3. Wash the membrane at room temperature for 1 hour with 5 or more changes of blotting buffer. Changing the membrane containers often reduces background.
4. Incubate the membrane at room temperature in antibody solution containing a 1:2,000 dilution of HRP-conjugated Protein A (Amersham).
5. Wash the membrane for 1 hour with 5 or more changes of blotting buffer.
6. Detection was with ECL reagent (Amersham).

**Cell lysates for western blottings:** To prepare total cell lysates, cells are solubilized in hot 2x SDS gel sample buffer (20 mM dithiothreitol, 6% SDS, 0.25 M Tris, pH 6.8, 10% glycerol, and bromophenyl blue) at 2 x 10<sup>6</sup> - 1 x 10<sup>7</sup> cells per mL. The extracts are heated in a boiling water bath for 5 minutes and then sonicated with a probe sonicator with 3 - 4 bursts of 5 - 10 seconds each. Samples are diluted with 1x SDS sample buffer to the desired concentration.