

## Basic Information

|                           |   |  |
|---------------------------|---|--|
| <b>Product Name</b>       | Anti-Beta Amyloid/APP Antibody (Clone#OTI7G9)   |  |
| <b>Gene Name</b>          | APP   |  |
| <b>Source</b>             | Mouse   |  |
| <b>Isotype</b>            | IgG1  |  |
| <b>Species Reactivity</b> | human, mouse, rat   |  |
| <b>Tested Application</b> | WB, IHC, IF, FCM  |  |
| <b>Contents</b>           | PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.  |  |
| <b>Immunogen</b>          | Full length human recombinant protein of human APP (NP_000475) produced in HEK293T cell.  |  |
| <b>concentration</b>      | 500 ug/ml   |  |
| <b>Purification</b>       | Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)   |  |
| <b>Observed MW</b>        | 87.0KD  |  |
| <b>Dilution Ratios</b>    | Western blot (WB): 1:2000<br>Immunohistochemistry in paraffin section (IHC):1:50<br>Immunofluorescence (IF): 1:100<br>Flow cytometry (FCM): 1:100 |  |

## Storage

Stable for 12 months from date of receipt. Store at -20°C as received.

## Background Information

Amyloid precursor protein (APP) is an integral membrane protein expressed in many tissues and concentrated in the synapses of neurons. It is mapped to 21q21.3. This gene encodes a cell surface receptor and transmembrane precursor protein that is cleaved by secretases to form a number of peptides. Some of these peptides are secreted and can bind to the acetyltransferase complex APBB1/TIP60 to promote transcriptional activation, while others form the protein basis of the amyloid plaques found in the brains of patients with Alzheimer disease. In addition, two of the peptides are antimicrobial peptides, having been shown to have bacteriocidal and antifungal activities. Mutations in this gene have been implicated in autosomal dominant Alzheimer disease and cerebroarterial amyloidosis (cerebral amyloid angiopathy). Multiple transcript variants encoding several different isoforms have been found for this gene.

## Selected Validation Data

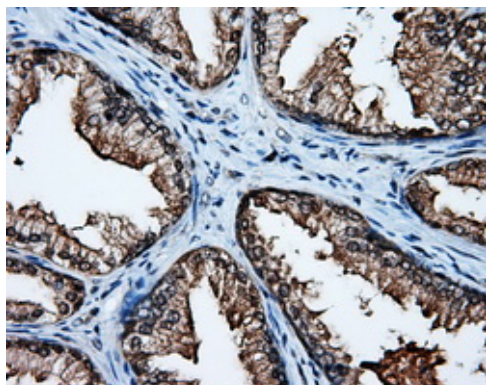


Figure 1. Immunohistochemical staining of paraffin-embedded prostate tissue within the normal limits using anti-APP mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, MA00081, Dilution 1:50)