

## Product Information

### **MemDX™ Membrane Protein Human APP (Amyloid beta precursor protein) Expressed *in vitro* E.coli expression system, Full Length of Mature Protein**

Cat. No.: **MPX4030K**

This product is for research use only and is not intended for diagnostic use.

This product is a Human APP membrane protein expressed *in vitro* E.coli expression system. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

#### Product Specifications

##### **Host Species**

Human

##### **Target Protein**

APP

##### **Protein Length**

Full Length of Mature Protein

##### **Protein Class**

Receptor

##### **TMD**

1

##### **Sequence**

LEVPTDGNAGLLAEPQIAMFCGRLNMHMNVQNGKWSDPSGKTCTCIDTKEGILQYCQEVYPELQITNVVEANQPVTIQNWCKRGR

#### Product Description

##### **Expression Systems**

*in vitro* E.coli expression system

##### **Tag**

10xHis tag at the N-terminus

##### **Protein Format**

Soluble

##### **Form**

Liquid or Lyophilized powder

##### **Buffer**

Tris/PBS-based buffer, 6% Trehalose, pH 8.0

### Storage

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -70°C or lower. Avoid freeze/thaw cycles.

### Target

#### Target Protein

APP

#### Full Name

Amyloid beta precursor protein

#### Introduction

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.

#### Alternative Names

APP; AAA; AD1; PN2; ABPP; APPI; CVAP; ABETA; PN-II; preA4; CTFgamma; alpha-sAPP; alzheimer disease amyloid protein; amyloid beta (A4) precursor protein; amyloid beta A4 protein; amyloid precursor protein; beta-amyloid peptide; beta-amyloid peptide(1-40); beta-amyloid peptide(1-42); beta-amyloid precursor protein; cerebral vascular amyloid peptide; peptidase nexin-II; protease nexin-II; testicular tissue protein Li 2; Amyloid beta precursor protein

#### Gene ID

[351](#)

#### UniProt ID

[P05067](#)