

Product Information

MemDX™ Membrane Protein Human PSEN1 (Presenilin 1) for Antibody Discovery

Cat. No.: **MP0821J**

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

This product is a 52.5 kDa Human PSEN1 membrane protein expressed in HEK293T. 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

PSEN1

Protein Length

Full-length

Protein Class

Druggable Genome, Protease, Transmembrane

Molecular Weight

52.5 kDa

TMD

9

Sequence

MTLPLAPLSYFQNAQMSSEDNHLSNTVRSQNDNRERQEHNDRSLGHPEPLSNGRPQGNSRQVVEQDEEED
EELTLKYGAKHVIMLFVPVTLCMVVVVATIKSVSFYTRKDGQLIYTPFTEDTETVGQRALHSILNAAIMI
SVIVVMTILLVVLKYRCYKVIHAWLISSLLLLFFSFYILGEVFKTYNVAVDYITVALLIWNFGVVGM
ISIHWKGPLRLQQAYLIMISALMALVFIKYLPEWTAWLILAVISVYDLVAVLCPKGPLRMLVETAQERNE
TLFPALIYSSTMVWLVNMAEGDPEAQRVSKNSKYNAESTERESQDTVAENDDGGFSEEWQAQRDShLGP
HRSTPESRAAVQELSSSILAGEDPEERGVLGLGDFIFYSVLVGKASATASGDWNTTIACFVAILIGLCL
TLLLLAIFKKALPALPISITFGLVFYFATDYLVPFMDQLAFHQFYI

Product Description

Expression Systems

HEK293T

Tag

C-Myc/DDK

Form

Liquid

Purification

Anti-DDK affinity column followed by conventional chromatography steps

Purity

> 80% as determined by SDS-PAGE and Coomassie blue staining

Buffer

25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol

Storage

Store at +4°C for up to one week or several months at -80°C

Target

Target Protein

PSEN1

Full Name

Presenilin 1

Introduction

Alzheimer's disease (AD) patients with an inherited form of the disease carry mutations in the presenilin proteins (PSEN1; PSEN2) or in the amyloid precursor protein (APP). These disease-linked mutations result in increased production of the longer form of amyloid-beta (main component of amyloid deposits found in AD brains). Presenilins are postulated to regulate APP processing through their effects on gamma-secretase, an enzyme that cleaves APP. Also, it is thought that the presenilins are involved in the cleavage of the Notch receptor, such that they either directly regulate gamma-secretase activity or themselves are protease enzymes. Several alternatively spliced transcript variants encoding different isoforms have been identified for this gene, the full-length nature of only some have been determined.

Alternative Names

AD3; FAD; PS1; PS-1; S182; ACNINV3

Gene ID

[5663](#)

UniProt ID

[P49768](#)