

# Product Information

## MemDX™ Antibody Discovery - Human BACE-1 (22-457) Membrane Protein, Partial

Cat. No.: **MP1044F**

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

This membrane protein is Human BACE-1 (22-457). It has been tested in SDS-PAGE. We provide this protein to facilitate your membrane protein antibody discovery and development.

### Product Specifications

#### Host Species

Human

#### Target Protein

BACE-1

#### Protein Length

ECD

#### Molecular Weight

The protein has a calculated MW of 49.0 kDa. The protein migrates as 53-60 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

#### Sequence

AA Thr 22 - Thr 457 (Accession # NP\_036236.1).

### Product Description

#### Application

SDS-PAGE

#### Expression Systems

HEK293

#### Tag

No tag

#### Protein Format

Soluble

#### Form

LYOPH

#### Reconstitution

Please see Certificate of Analysis for specific instructions.

**Endotoxin**

<1.0 EU/µg by the LAL method

**Purity**

>98% as determined by SDS-PAGE.

**Buffer**

Lyophilized from 0.22 µm filtered solution in 50 mM Tris, pH8.0. Normally trehalose is added as protectant before lyophilization.

**Storage**

Stored at lyophilized form at -20°C or lower. Avoid repeated freeze-thaw cycles.

The antigen can be stable for 12 months in lyophilized form after storage at -20°C to -80°C, 3 months under sterile conditions after reconstitution after storage at -80°C.

**Target****Target Protein**

BACE-1

**Full Name**

beta-secretase 1

**Introduction**

This gene encodes a member of the peptidase A1 family of aspartic proteases. Alternative splicing results in multiple transcript variants, at least one of which encodes a preproprotein that is proteolytically processed to generate the mature protease. This transmembrane protease catalyzes the first step in the formation of amyloid beta peptide from amyloid precursor protein. Amyloid beta peptides are the main constituent of amyloid beta plaques, which accumulate in the brains of human Alzheimer's disease patients.

**Alternative Names**

ASP2; BACE; HSPC104; beta-secretase 1; APP beta-secretase; asp 2; aspartyl protease 2; beta-secretase 1 precursor variant 1; beta-site APP cleaving enzyme 1; beta-site APP-cleaving enzyme; beta-site amyloid beta A4 precursor protein-cleaving enzyme; memapsin-2; membrane-associated aspartic protease 2; transmembrane aspartic proteinase Asp2

**Gene ID**

[23621](#)

**UniProt ID**

[P56817](#)