

Product Information

MemDX™ Antibody Discovery - Human BACE-1 (22-457) Membrane Protein, Partial, -hIgG1

Fc tag

Cat. No.: **MP1045F**

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 75.2 kDa (pro-form) and 72.6 kDa (mature-form). The protein migrates as 80-96 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

Human IgG1 Fc tag at the C-terminus

Protein Format

Soluble

Form

LYOPH

Reconstitution

Please see Certificate of Analysis for specific instructions.

Endotoxin

<1.0 EU/μg by the LAL method

Purity

>85% as determined by SDS-PAGE.

Buffer

Lyophilized from 0.22 μm filtered solution in 50 mM Tris, 100 mM Glycine, pH7.5. 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](#)