
Presenilin1 Antibody

Subcategory: Rabbit Polyclonal Antibody

Cat. No.: 253722

Unit: 0.1 mg

Description:

Presenilin1 was initially identified as a marker of susceptibility to early-onset Alzheimer's disease. In addition to PEN2, nicastrin and APH-1, Presenilin1 forms the gamma-secretase protein complex, a membrane-bound aspartyl protease that can cleave certain proteins at peptide bonds buried within the hydrophobic environment of the lipid bilayer. This cleavage is responsible for a key step in signaling from several cell-surface receptors and is thought to be required for the generation of the neurotoxic amyloid peptides that are central to the pathogenesis of Alzheimer's disease. Like the tumor necrosis factor-alpha-converting enzyme (TACE) and the beta-site cleavage enzyme (BACE) protease families, gamma-secretase will cleave the amyloid precursor protein (APP), but within the intramembrane region of APP, resulting in either the non-toxic p3 (from the alpha and gamma cleavage site) or the toxic Abeta amyloid peptide (from the beta and gamma cleavage site). It is thought that accumulation of the Abeta peptide is the precursor to Alzheimer's disease. Multiple isoforms of presenilin1 are known to exist. This antibody has no cross-reactivity to presenilin2.

Isotype: Rabbit Ig

Applications: E, WB, IHC

Species Reactivity: H, M, R

Format: Each vial contains 0.1 ml IgG in PBS pH 7.4 with 0.02% sodium azide. Antibody was purified by immunogen affinity chromatography.

Alternate Names: Presenilin1; PSEN1; PS1; Gamma-secretase subunit presenilin-1

Accession No.: NP_000012

Antigen: KLH-conjugated synthetic peptide encompassing a sequence within human Presenilin1.

Application Notes: E: 1:500-1:1,000; WB: 1:100-1:500; IHC: 1:00-1:500

Storage: Store at -20°C. Minimize freeze-thaw cycles.

Product is guaranteed one year from the date of shipment.

For research use only, not for diagnostic or therapeutic procedures.