



Anti-PSEN2 (aa 1-86) polyclonal antibody (DPAB-DC2524)

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

PRODUCT INFORMATION

| | |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Antigen Description | Alzheimers disease (AD) patients with an inherited form of the disease carry mutations in the presenilin proteins (PSEN1 or PSEN2) or 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 act as protease enzymes. Two alternatively spliced transcript variants encoding different isoforms of PSEN2 have been identified. |
| Immunogen | PSEN2 (NP_000438, 1 a.a. ~ 86 a.a) partial recombinant protein with GST tag. The sequence is MLTFMASDSEEEVCDERTSLMSAESPTPRSCQEGRQGPEDGENTAQWRSQENEEDGEEDP DRYVCSGVPGRPPGLEEELTLKYGAK |
| Source/Host | Mouse |
| Species Reactivity | Human |
| Conjugate | Unconjugated |
| Applications | WB (Recombinant protein), ELISA, |
| Size | 50 µl |
| Buffer | 50 % glycerol |
| Preservative | None |
| Storage | Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing. |

GENE INFORMATION

| | |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Gene Name | PSEN2 presenilin 2 [Homo sapiens (human)] |
| Official Symbol | PSEN2 |
| Synonyms | PSEN2; presenilin 2; AD4; PS2; AD3L; STM2; CMD1V; presenilin-2; AD5; E5-1; PS-2; AD3LP; STM-2; Alzheimer disease 4; |
| Entrez Gene ID | 5664 |
| Protein Refseq | NP_000438 |
| UniProt ID | P49810 |
| Chromosome Location | 1q42.13 |
| Pathway | Activated NOTCH1 Transmits Signal to the Nucleus; Alzheimers disease; Cell death signalling via NRAGE, NRIF and NADE; Constitutive Signaling by NOTCH1 PEST Domain Mutants |
| Function | aspartic-type endopeptidase activity; endopeptidase activity; protein binding; |