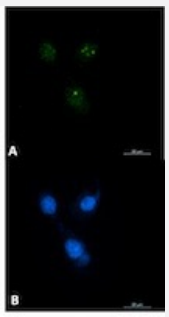
RecomAb™

# PSEN1 recombinant monoclonal antibody, clone R05-4D4

Catalog # RAB01985 Size 100 uL

## Applications




### Immunocytochemistry

Immunocytochemical staining of SKOV-3 with PSEN1 recombinant monoclonal antibody, clone R05-4D4 (Cat # RAB01985). (A) PSEN1 (green) and (B) DAPI (blue).




### Western Blot

Western blot analysis of Lane 1: Hela, Lane 2: C6 and Lane 3: Jurkat lysates with PSEN1 recombinant monoclonal antibody, clone R05-4D4 (Cat # RAB01985).

## Specification

| | |
|---|---|
| **Product Description** | Rabbit recombinant monoclonal antibody raised against human PSEN1. |
| **Antibody Species** | Rabbit |
| **Immunogen** | Original antibody is raised against a synthetic peptide corresponding to human PSEN1. |
| **Theoretical MW (kDa)** | Calculated MW: 53 kD |
| **Reactivity** | Human, Mouse, Rat |
| **Form** | Liquid |

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| | |
|---|---|
| **Preparation Method** | Mammalian cell (CHO) expression system |
| **Purification** | Affinity purification |
| **Isotype** | IgG |
| **Recommend Usage** | Immunocytochemistry<br>Immunofluorescence (1:50-1:200)<br>Immunoprecipitation (1:20)<br>Western Blot (1:500-1:1000)<br>The optimal working dilution should be determined by the end user. |
| **Storage Buffer** | In 50 mM Tris-Glycine pH 7.4 (0.15 M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA). |
| **Storage Instruction** | Store at -20 °C.<br>Aliquot to avoid repeated freezing and thawing. |
| **Note** | This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only. |

## Applications

- Immunofluorescence
- Immunocytochemistry

  Immunocytochemical staining of SKOV-3 with PSEN1 recombinant monoclonal antibody, clone R05-4D4 (Cat # RAB01985). (A) PSEN1 (green) and (B) DAPI (blue).
- Immunoprecipitation
- Western Blot

  Western blot analysis of Lane 1: Hela, Lane 2: C6 and Lane 3: Jurkat lysates with PSEN1 recombinant monoclonal antibody, clone R05-4D4 (Cat # RAB01985).

## Gene Info — PSEN1

| | |
|---|---|
| **Entrez GeneID** | 5663 |
| **Protein Accession#** | P49768 |
| **Gene Name** | PSEN1 |
| **Gene Alias** | AD3, FAD, PS1, S182 |

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| | |
|---|---|
| **Gene Description** | presenilin 1 |
| **Omim ID** | 104311 172700 600274 607822 |
| **Gene Ontology** | Hyperlink |
| **Gene Summary** | Alzheimer's disease (AD) patients with an inherited form of the disease carry mutations in the pre senilin proteins (PSEN1; PSEN2) or in the amyloid precursor protein (APP). These disease-linke d 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 thro ugh their effects on gamma-secretase, an enzyme that cleaves APP. Also, it is thought that the pr esenilins 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 tran script variants encoding different isoforms have been identified for this gene, the full-length nature of only some have been determined. [provided by RefSeq |
| **Other Designations** | - |

## Pathway

- Neurotrophin signaling pathway
- Notch signaling pathway
- Wnt signaling pathway

## Disease

- Alzheimer disease
- Amyotrophic lateral sclerosis
- Anomia
- Cardiovascular Diseases
- Chromosome Disorders
- Cognition
- Cognition Disorders
- Dementia
- Depressive Disorder
- Diabetes Complications

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- Disease Progression
- Down Syndrome
- Genetic Predisposition to Disease
- Headache
- Lewy Body Disease
- Macular Degeneration
- Memory Disorders
- Mental Status Schedule
- Metabolic Syndrome X
- Narcolepsy
- Neoplasms
- Neurodegenerative Diseases
- Neuropsychological Tests
- Osteoporosis
- Parkinson disease
- Psychiatric Status Rating Scales
- Recurrence
- Schizophrenia
- Tobacco Use Disorder
- Tourette Syndrome

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