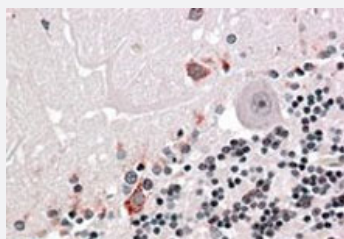


# PRODH polyclonal antibody

Catalog # PAB6986

Size 100 ug

## Applications



### Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

PRODH polyclonal antibody (Cat # PAB6986)(3.8 ug/mL) staining of paraffin embedded human cerebellum. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.

## Specification

|                      |                                                                                                                                                                           |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Description  | Goat polyclonal antibody raised against synthetic peptide of PRODH.                                                                                                       |
| Immunogen            | A synthetic peptide corresponding to internal region of human PRODH.                                                                                                      |
| Sequence             | C-ERDGS GTNKRDKQYQ                                                                                                                                                        |
| Host                 | Goat                                                                                                                                                                      |
| Theoretical MW (kDa) | 68                                                                                                                                                                        |
| Reactivity           | Human                                                                                                                                                                     |
| Form                 | Liquid                                                                                                                                                                    |
| Purification         | Antigen affinity purification                                                                                                                                             |
| Concentration        | 0.5 mg/mL                                                                                                                                                                 |
| Recommend Usage      | ELISA (1:16000)<br>Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (3-6 ug/mL)<br>The optimal working dilution should be determined by the end user. |
| Storage Buffer       | In Tris saline, pH 7.3 (0.5% BSA, 0.02% sodium azide)                                                                                                                     |

**Storage Instruction**

Store at -20°C.  
Aliquot to avoid repeated freezing and thawing.

**Note**

This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

## Applications

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

PRODH polyclonal antibody (Cat # PAB6986)(3.8 ug/mL) staining of paraffin embedded human cerebellum. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.

- Enzyme-linked Immunoabsorbent Assay

## Gene Info — PRODH

**Entrez GeneID**[5625](#)**Protein Accession#**[NP\\_057419.2](#)**Gene Name**

PRODH

**Gene Alias**

FLJ33744, HSPOX2, MGC148078, MGC148079, PIG6, POX, PRODH1, PRODH2, SCZD4, TP53I6

**Gene Description**

proline dehydrogenase (oxidase) 1

**Omim ID**[239500 606810](#)**Gene Ontology**[Hyperlink](#)**Gene Summary**

The protein encoded by this gene is a mitochondrial proline dehydrogenase that catalyzes the first step in proline degradation. Defects in this gene are a cause of hyperprolinemia type 1 and possibly susceptibility to schizophrenia 4 (SCZD4). The gene is located on chromosome 22q11.21, a region which has also been associated with the contiguous gene deletion syndromes DiGeorge syndrome and CATCH22 syndrome. [provided by RefSeq]

**Other Designations**

OTTHUMP00000196495|proline dehydrogenase 1|proline oxidase 2|proline oxidase, mitochondrial|tumor protein p53 inducible protein 6

## Publication Reference

- [Transcriptional and behavioral interaction between 22q11.2 orthologs modulates schizophrenia-related phenotypes in mice.](#)

Paterlini M, Zakharenko SS, Lai WS, Qin J, Zhang H, Mukai J, Westphal KG, Olivier B, Sulzer D, Pavlidis P, Siegelbaum SA, Karayiorgou M, Gogos JA.

Nature Neuroscience 2005 Nov; 8(11):1586.

## Pathway

- [Arginine and proline metabolism](#)
- [Metabolic pathways](#)

## Disease

- [Amino Acid Metabolism](#)
- [Autistic Disorder](#)
- [Bipolar Disorder](#)
- [Cognition](#)
- [DiGeorge syndrome](#)
- [Dominance](#)
- [Genetic Predisposition to Disease](#)
- [Memory](#)
- [Mental Disorders](#)
- [Mental Retardation](#)
- [Psychotic Disorders](#)
- [Schizophrenia](#)
- [Schizophrenic Psychology](#)
- [Schizotypal Personality Disorder](#)
- [Startle Reaction](#)

- [Verbal Learning](#)