

For Research Use Only

# PRODH Monoclonal antibody

Catalog Number: 68621-1-Ig



## Basic Information

|   |  |   |
|---|--|---|
| <b>Catalog Number:</b><br>68621-1-Ig        | <b>GenBank Accession Number:</b><br>BC118597           | <b>Purification Method:</b><br>Protein G purification |
| <b>Size:</b><br>1000 µg/ml                  | <b>GeneID (NCBI):</b><br>5625                          | <b>CloneNo.:</b><br>2C3G5                             |
| <b>Source:</b><br>Mouse                     | <b>UNIPROT ID:</b><br>O43272                           | <b>Recommended Dilutions:</b><br>WB 1:5000-1:50000    |
| <b>Isotype:</b><br>IgG1                     | <b>Full Name:</b><br>proline dehydrogenase (oxidase) 1 |   |
| <b>Immunogen Catalog Number:</b><br>AG18429 | <b>Calculated MW:</b><br>600 aa, 68 kDa                |   |
|   | <b>Observed MW:</b><br>56 kDa, 66 kDa                  |   |

## Applications

|   |   |
|---|---|
| <b>Tested Applications:</b><br>WB, ELISA                      | <b>Positive Controls:</b><br>WB : mouse liver tissue, pig brain tissue, rabbit brain tissue, rat brain tissue, mouse brain tissue |
| <b>Species Specificity:</b><br>Human, mouse, rat, rabbit, pig |   |

## Background Information

PRODH (Proline dehydrogenase 1, mitochondrial) is also named as PIG6, HSPOX2, PRODH1, PRODH2, POX, SCZD4, TP53I6 and belongs to the proline oxidase family. It is an oxidoreductase involved in the transfer of redox potential across the mitochondrial membrane and catalyzes the rate-limiting oxidation of proline to pyrroline-5-carboxylate (P5C). High PRODH activity is sufficient to induce mitochondria-mediated apoptosis in the presence of proline. Defects in PRODH are the cause of hyperprolinemia type 1 (HP-1) and defects in PRODH are associated with susceptibility to schizophrenia type 4 (SCZD4). This protein has 3 isoforms produced by alternative splicing with the molecular mass of 68 kDa, 59 kDa and 56 kDa.

## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

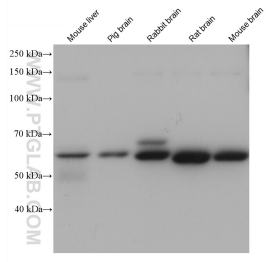
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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 68621-1-Ig (PRODH antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.