

PRODH Monoclonal antibody

Catalog Number: 68621-1-Ig

Basic Information

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

Applications

Tested Applications: WB, ELISA	Positive Controls:
Species Specificity: human, mouse, rat, pig, rabbit	WB : mouse liver tissue, pig brain tissue, rabbit brain tissue, rat brain tissue, mouse brain tissue

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, pH7.3
Aliquoting is unnecessary for -20°C storage

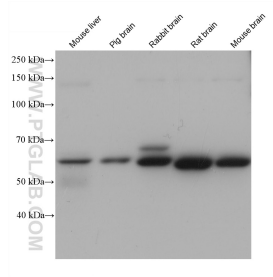
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Selected Validation Data



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