

For Research Use Only

PRODH Monoclonal antibody, PBS Only



Catalog Number: 68621-1-PBS

Basic Information

Catalog Number: 68621-1-PBS	GenBank Accession Number: BC118597	Purification Method: Protein G purification
Size: 100ug , Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 5625	CloneNo.: 2C3G5
Source: Mouse	UNIPROT ID: O43272	
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, Indirect ELISA

Species Specificity:
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

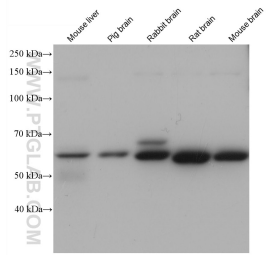
Storage:
Store at -80°C.

Storage Buffer:
PBS Only

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA) E: proteintech@ptglab.com
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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. This data was developed using the same antibody clone with 68621-1-PBS in a different storage buffer formulation.