

For Research Use Only

TSKS Polyclonal antibody

Catalog Number: 33992-1-AP



Basic Information

Catalog Number: 33992-1-AP	GenBank Accession Number: NM_021733.1	Purification Method: Antigen affinity Purification
Size: 150ul , Concentration: 380 ug/ml by Nanodrop;	GeneID (NCBI): 60385	Recommended Dilutions: WB: 1:5000-1:50000
Source: Rabbit	UNIPROT ID: Q9UJT2	
Isotype: IgG	Full Name: testis-specific serine kinase substrate	
Immunogen Catalog Number: AG38588	Calculated MW: 65kDa 592aa	
	Observed MW: 65 kDa	

Applications

Tested Applications: WB, ELISA	Positive Controls: WB : mouse testis tissue, rat testis tissue
Species Specificity: human, mouse, rat	

Background Information

Testis-specific serine kinase substrate (TSKS) was identified as a substrate for testis-specific serine kinase 1 (TSSK1) and TSSK2. Although these three proteins co-localize to nuage, double knockout (KO) mice lacking TSSK1 and TSSK2 (Tssk1/2 dKO mice) exhibit abnormal mitochondrial sheath formation, suggesting that these proteins and nuage are involved in mitochondrial sheath formation. However, the previous study observed abundant cytoplasm in the late spermatids at seminiferous tubule stage VIII of the Tssk1/2 dKO mouse. Furthermore, an interaction between TSKS and phosphatase protein PPP1CC2 was also reported previously. Protein phosphatase 1 catalytic subunit gamma (Ppp1cc) is a member of the PP1 family of protein phosphatases that encodes two splice isoforms: the ubiquitous Ppp1cc1 and the testis-specific Ppp1cc2. Ppp1cc knockout (KO) male mice also exhibit malformed mitochondrial sheath formation. These data indicate that the kinase and phosphatase of TSKS are involved in the formation of the mitochondrial sheath (PMID: 36881620).

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

***** 20ul sizes contain 0.1% BSA**

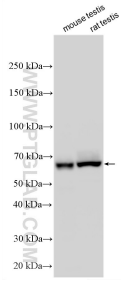
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

E: proteintech@ptglab.com
W: ptglab.com

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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 33992-1-AP (TSKS antibody) at dilution of 1:15000 incubated at room temperature for 1.5 hours.