For Research Use Only

SMCR7L/MID51 Monoclonal antibody

Catalog Number:67808-1-lg 1 Publications

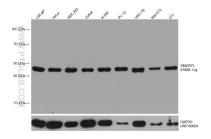


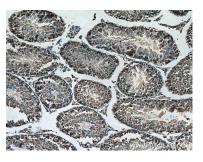
Basic Information	Catalog Number: 67808-1-lg	GenBank Accession Number: BC002587		Purification Method: Protein A purification			
	Size: 150ul, Concentration: 1000 ug/ml by Nanodrop; Source: Mouse Isotype: IgG2b Immunogen Catalog Number: AG13775	GeneID (NCBI): 54471 UNIPROT ID: Q9NQG6 Full Name:		CloneNo.: 3B3G3 Recommended Dilutions: WB 1:5000-1:50000 IHC 1:250-1:1000			
					Smith-Mageni	is syndrome	IF-P 1:200-1:800
					-	region, candidate 7-like	ł
					Calculated MW: 463 aa, 51 kDa		
		Observed MW 48-51 kDa	•				
		Applications	Tested Applications: WB, IHC, IF-P, ELISA		Positive Controls:		
			Cited Applications: WB			WB : LNCaP cells, HeLa cells, HEK-293 cells, Jurkat cells, K-562 cells, PC-12 cells, NIH/3T3 cells, 4T1 cells, HSC-T6 cells	
			Species Specificity: IHC : mo		IHC : mouse te	estis tissue,	
Human, mouse , rat IF-P : mouse			estis tissue,				
Cited Species: human Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0 Human SMCR7L gene encodes, MID51, the mitochondrial dynamic protein of 51 kDa (also called mitochondrial elongation factor 1, MIEF1). MID51 is a single-pass membrane protein anchored to the mitochondrial outer membrane and regulates mitochondrial morphology. Mitochondrial morphology is controlled by two opposing processes: fusion and fission. Elevated MID51 levels induce extensive mitochondrial fusion, whereas depletion of MID51 causes mitochondrial fragmentation. MID51 interacts with and recruits Drp1 to mitochondria, suggesting a critical role of MID51 in regulation of mitochondrial fusion-fission machinery in vertebrates.							
				Background Information			
				Notable Publications	Author Pub	omed ID	Journal
Harry J Brown 399	975346	bioRxiv	WB				
Storage	Storage: Store at -20°C. Stable for one year aft Storage Buffer: PBS with 0.02% sodium azide and 50		7.3				
		torage					

For technical support and original validation data for this product please contact: T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free E: proteintech@ptglab.com in USA), or 1(312) 455-8498 (outside USA) W: ptglab.com

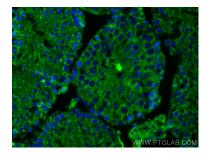
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## Selected Validation Data





Immunohistochemical analysis of paraffinembedded mouse testis tissue slide using 67808-1-Ig (SMCR7L/MID51 antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed mouse testis tissue using SMCR7L/MID51 antibody (67808-1-Ig, Clone: 3B3G3) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L).

Various lysates were subjected to SDS PAGE followed by western blot with 67808-1-1g (SMCR7L/MID51 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRPconjugated GAPDH Monoclonal antibody (HRP-60004) as loading control.