For Research Use Only

SMCR7L/MID51 Monoclonal antibody

Catalog Number:67808-1-Ig

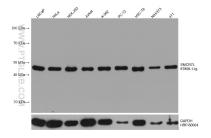


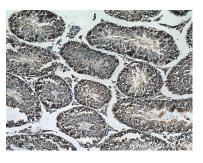
Basic Information	Catalog Number: 67808-1-lg	GenBank Accession Number: BC002587 GeneID (NCBI): 54471		Purification Method: Protein A purification CloneNo.: 3B3G3	
		UNIPROT ID: Q9NQG6		Recommended Dilutions: WB 1:5000-1:50000	
		Full Name: Smith-Magenis syndrome chromosome region, candidate 7-lik		IHC 1:250-1:1000 IF-P 1:200-1:800 Ke	
		Calculated MW: 463 aa, 51 kDa Observed MW: 48-51 kDa			
Applications	WB, IHC, IF-P, ELISA WE Species Specificity: cel		Positive Contr	sitive Controls:	
			WB : LNCaP cells, HeLa cells, HEK-293 cells, Jurkat cells, K-562 cells, PC-12 cells, NIH/3T3 cells, 4T1 cells, HSC-T6 cells		
	Note-IHC: suggested antigen retrieval with		IHC : mouse testis tissue,		
	TE buffer pH 9.0; (*) Alternativ retrieval may be performed w buffer pH 6.0		IF-P : mouse testis tissue,		
Background Information	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.				
Storage	Storage: Store at -20°C. Stable for one year after shipment. Storage Buffer: PBS with 0.1% sodium azide and 50% glycerol pH 7.3.				
	Aliquoting is unnecessary for -20°C st	0, 1			

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.comW: ptglab.comW: ptglab.com

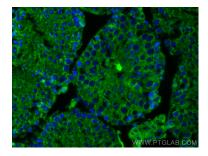
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Selected Validation Data





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 AffiniPure 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.