For Research Use Only

MTMR14 Monoclonal antibody

Catalog Number:67561-1-lg 2 Publications

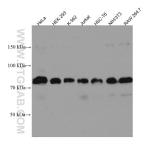


Basic Information	Catalog Number: 67561-1-lg	GenBank Accession Number: BC050626	Purification Method: Protein A purification	
	Size:	GenelD (NCBI):	CloneNo.:	
	1800 µg/ml	64419	1A8B2	
	Source: Mouse	UNIPROT ID: Q8NCE2	Recommended Dilutions: WB 1:1000-1:6000	
	lsotype: IgG2b	Full Name: myotubularin related protein 14	IHC 1:500-1:2000 IF-P 1:200-1:800	
	Immunogen Catalog Number: AG6883	Calculated MW: 72 kDa		
		Observed MW: 74 kDa		
Applications	Tested Applications: IF-P, IHC, WB,ELISA		Positive Controls:	
	Cited Applications:	WB : HeLa cells, HEK-293 cells, K-562 cells, Jurkat cells, HSC-T6 cells, NIH/3T3 cells, RAW 264.7 cells		
	WB, IF Species Specificity:	IHC : mouse heart tissue, mouse skeletal muscle tissue		
	Human, mouse, rat	IF-P : mo	IF-P : mouse heart tissue,	
	Cited Species: human, mouse, rat			
	Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0			
Background Information	MTMR14, also known as Jumpy, belongs to the MTM1/MTMRs family which has 15 members that divided into two subgroup: catalytically inactive and active. MTMR14 is a catalytically active member possessing an active phosphatase domain, that specifically dephosphorylates PI3P and phosphatidylinositol (3,5)-bisphosphate (PI3,5P2) at position 3 on inositol ring. A remarkable feature of the MTM1/MTMRs family is the association between a catalytically inactive member and a catalytically active member, which plays an important regulatory role. MTMR14 has 3 isoforms with molecular weight of 60-72 kDa, and also can be detected as a higher molecular weight due to the heterodimerization with other MTMR members.			
Notable Publications	Author	Pubmed ID Journal	Application	
	Ling-Yao Kong	36314496 J Am Heart Asso	c IF	
	Yiya Gu	35035670 Oxid Med Cell L	ongev WB	
Storage	Storage: Store at -20°C. Storage Buffer: PBS with 0.02% sodium azide an Aliquoting is unnecessary for -20			

For technical support and original validation data for this product please contact: E: Proteintech-CN@ptglab.com T: 4006900926 W: ptgcn.com

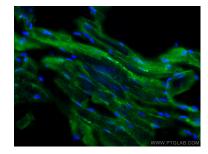
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Selected Validation Data





Various lysates were subjected to SDS PAGE followed by western blot with 67561-1-Ig (MTMR14 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours. Immunohistochemical analysis of paraffinembedded mouse heart tissue slide using 67561-1-Ig (MTMR14 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed mouse heart tissue using MTMR14 antibody (67561-1-Ig, Clone: 1A8B2) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).