For Research Use Only

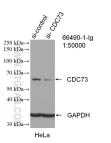
HRPT2, CDC73 Monoclonal antibody

Catalog Number:66490-1-Ig Featured Product 4 Publications

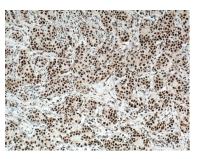
proteintech® Antibodies | ELISA kits | Proteins www.ptglab.com

Basic Information	Catalog Number: 66490-1-lg	-		Purification Method: Protein A purification	
	Size:	GenelD (NCBI): 79577		CloneNo.:	
	150ul, Concentration: 1500 ug/ml by			4B4H2 Recommended Dilutions: WB 1:5000-1:50000 IHC 1:200-1:800 IF-P 1:50-1:500 IF-Fro 1:200-1:800	
	Nanodrop and 1000 ug/ml by Bradford method using BSA as the standard;				
	Source: Mouse	Full Name: cell division cycle 73, Paf1/RNA polymerase II complex component,			
	Isotype:				
	lgG2a	homolog (S. cerevisia	•		
	Immunogen Catalog Number: AG2959	Calculated MW: 531 aa, 61 kDa Observed MW: 61 kDa			
Applications	Tested Applications:	10		rols:	
	WB, IHC, IF-P, IF-Fro, ELISA Cited Applications: WB, IHC			n tissue, LNCaP cells, HeLa cells, mouse HEK-293 cells, Caco-2 cells, RAW 264.7	
	Species Specificity: IHC : human human, mouse, rat, pig			preast cancer tissue,	
				n breast cancer tissue,	
	Cited Species: human, mouse	IF-Fro : mou		e breast cancer,	
	retrieval may be performed wi buffer pH 6.0	ith citrate			
Background Information	Parafibromin is a product of the hyperparathyroidism-jaw tumor syndrome gene HRPT2/CDC73, a putative tumor suppressor gene recently implicated in the autosomal dominant hyperparathyroidism-jaw tumor familial cancer syndrome, sporadic parathyroid cancer, and a minority of families with isolated hyperparathyroidism (PMID: 15580289). Defects in CDC73 are causes of hyperparathyroidism type 1 (HRPT1) and hyperparathyroidism type 2 (HRPT2) as well as parathyroid carcinoma (PRTC) (PMID: 12434154). Tumor suppressor parafibromin to the transcription elongation and RNA processing pathway as a PAF1 complex- and RNA polymerase II-bound protein (PMID: 15923622). Besides, parafibromin is also involved in post-transcriptional control pathways (PMID: 16116486) Recent report has revealed that pathogenic mutation, such as CDC73 gene mutation, is able to affect histone monoubiquitination (PMID: 22021426).				
Notable Publications	Author Pubr	med ID Journa	ι	Application	
	Yabo Ma 3641	14229 J Prote	omics	WB	
	Naomi Hatabu 3073	39106 Horm F	Res Paediatr	IHC	
		ADOD bis Dui	v		
	Sicong Zhang 3921	11208 bioRxi			
Storage	Storage: Store at -20°C. Stable for one year after Storage Buffer: PBS with 0.02% sodium azide and 50%	er shipment. % glycerol, pH7.3			
Storage *** 20ul sizes contain 0.1% BSA	Storage: Store at -20°C. Stable for one year after Storage Buffer:	er shipment. % glycerol, pH7.3	-		

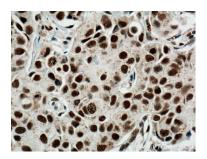
Selected Validation Data



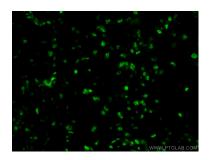
WB result of HRPT2, CDC73 antibody (66490-1-Ig; 1:50000; incubated at room temperature for 1.5 hours) with sh-Control and sh-HRPT2, CDC73 transfected HeLa cells.



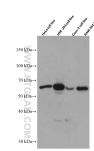
Immunohistochemical analysis of paraffinembedded human breast cancer tissue slide using 66490-1-Ig (HRPT2, CDC73 antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



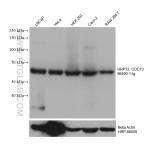
Immunohistochemical analysis of paraffinembedded human breast cancer tissue slide using 66490-1-Ig (HRPT2; CDC73 antibody) at dilution of 1:400 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



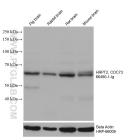
Immunofluorescent analysis of (4% PFA) fixed human breast cancer tissue using HRPT2, CDC73 antibody (66490-1-Ig, Clone: 4B4H2) at dilution of 1:100 and CoraLite488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



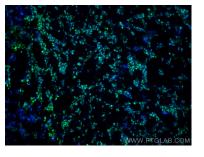
Various lysates were subjected to SDS PAGE followed by western blot with 66490-1-Ig (HRPT2, CDC73 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Various lysates were subjected to SDS PAGE followed by western blot with 66490-1-1g (HRPT2, CDC73 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated Beta Actin Monoclonal antibody (HRP-66009) as loading control.



Various lysates were subjected to SDS PAGE followed by western blot with 66490-1-1g (HRPT2, CDC73 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated Beta Actin Monoclonal antibody (HRP-66009) as loading control.



Immunofluorescent analysis of (4% PFA) fixed frozen OCT-embedded mouse breast cancer using HRPT2, CDC73 antibody (66490-1-1g, Clone: 4B4H2) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L) (SA00013-1).