

For Research Use Only

HRPT2, CDC73 Monoclonal antibody

Catalog Number: 66490-1-Ig

Featured Product

4 Publications



Basic Information

Catalog Number: 66490-1-Ig	GenBank Accession Number: BC014351	Purification Method: Protein A purification
Size: 150ul, Concentration: 1500 ug/ml by Nanodrop and 1000 ug/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 79577	CloneNo.: 4B4H2
Source: Mouse	UNIPROT ID: Q6P1J9	Recommended Dilutions: WB 1:5000-1:50000 IHC 1:200-1:800 IF-P 1:50-1:500
Isotype: IgG2a	Full Name: cell division cycle 73, Paf1/RNA polymerase II complex component, homolog (S. cerevisiae)	
Immunogen Catalog Number: AG2959	Calculated MW: 531 aa, 61 kDa	
	Observed MW: 61 kDa	

Applications

Tested Applications:

WB, IHC, IF-P, ELISA

Cited Applications:

WB, IHC

Species Specificity:

Human, Pig, Mouse, Rat

Cited Species:

human, mouse

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB: pig brain tissue, LNCaP cells, HeLa cells, mouse brain tissue, HEK-293 cells, Caco-2 cells, RAW 264.7 cells

IHC: human breast cancer tissue,

IF-P: human breast cancer tissue,

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	Pubmed ID	Journal	Application
Yabo Ma	36414229	J Proteomics	WB
Naomi Hatabu	30739106	Horm Res Paediatr	IHC
Sicong Zhang	39211208	bioRxiv	

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

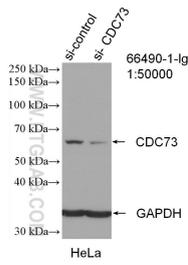
For technical support and original validation data for this product please contact:

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

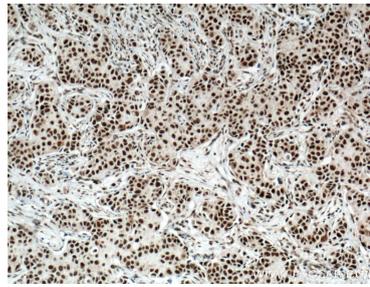
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

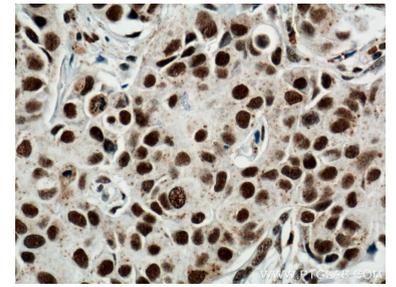
Selected Validation Data



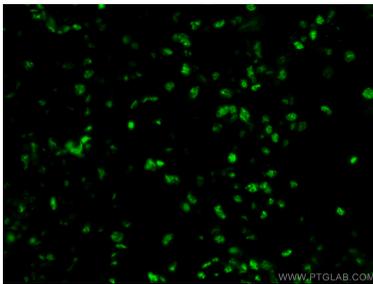
WB result of HRPT2, CDC73 antibody (66490-1-Ig; 1:50000; incubated at room temperature for 1.5 hours) with sh-Control and sh-HRPT2, CDC73 transfected HeLa cells.



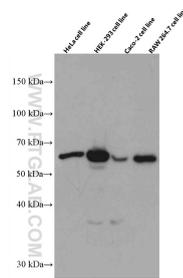
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 66490-1-Ig (HRPT2, CDC73 antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



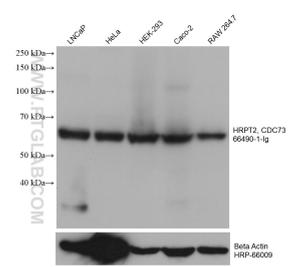
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 66490-1-Ig (HRPT2; CDC73 antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



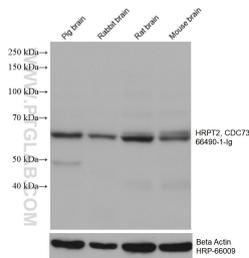
Immunofluorescent analysis of (4% PFA) fixed human breast cancer tissue using HRPT2, CDC73 antibody (66490-1-Ig, Clone: 4B4H2) at dilution of 1:100 and CoraLite488-Conjugated Goat Anti-Mouse IgG(H+L).



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.



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