

For Research Use Only

HRPT2, CDC73 Polyclonal antibody

Catalog Number: 12310-1-AP

Featured Product

1 Publications



Basic Information

Catalog Number:

12310-1-AP

Size:

150ul, Concentration: 400 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG2959

GenBank Accession Number:

BC014351

GeneID (NCBI):

79577

UNIPROT ID:

Q6P1J9

Full Name:

cell division cycle 73, Paf1/RNA polymerase II complex component, homolog (S. cerevisiae)

Calculated MW:

531 aa, 61 kDa

Observed MW:

61 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:1000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

IF/ICC 1:200-1:800

Applications

Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

Cited Applications:

WB, IP

Species Specificity:

human, mouse, rat

Cited Species:

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: HEK-293 cells, HeLa cells, HepG2 cells

IP: mouse testis tissue,

IHC: human breast cancer tissue,

IF/ICC: HeLa cells,

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
Jiawei Zhao	38218188	Cell	WB,IP

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

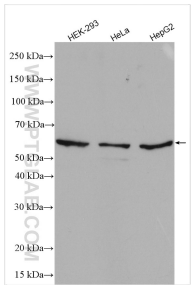
For technical support and original validation data for this product please contact:

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

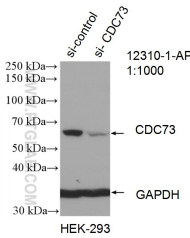
E: proteintech@ptglab.com
W: ptglab.com

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

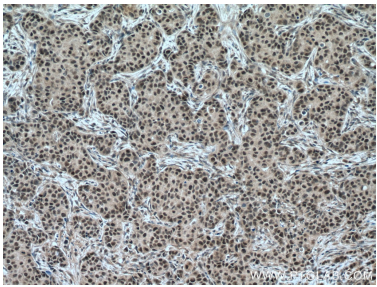
Selected Validation Data



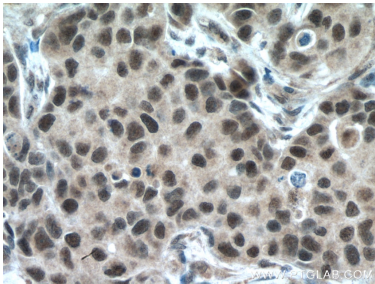
Various lysates were subjected to SDS PAGE followed by western blot with 12310-1-AP (HRPT2, CDC73 antibody) at dilution of 1:800 incubated at room temperature for 1.5 hours.



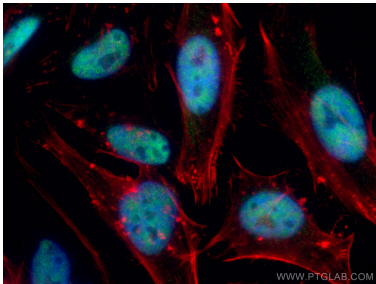
WB result of HRPT2, CDC73 antibody (12310-1-AP; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-HRPT2, CDC73 transfected HEK-293 cells.



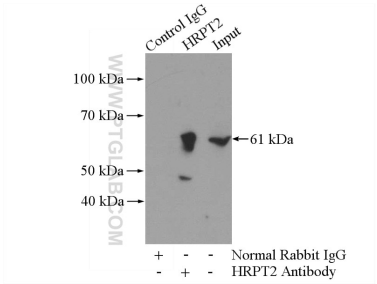
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 12310-1-AP (HRPT2, CDC73 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 12310-1-AP (HRPT2 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using HRPT2, CDC73 antibody (12310-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-phalloidin (red).



IP result of anti-HRPT2, CDC73 (IP:12310-1-AP, 4ug; Detection:12310-1-AP 1:500) with mouse testis tissue lysate 4000 ug.