

HRPT2 Polyclonal Antibody

Catalog number: 12310-1-AP

Size: 20 µg/150 µl

Source: Rabbit

Isotype: IgG

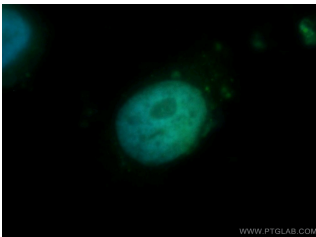
Synonyms:

CDC73; C1orf28, CDC73,

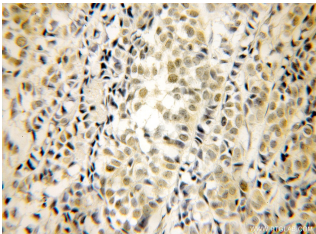
FLJ23316, HPT JT, HRPT2,

Hyperparathyroidism 2 protein,

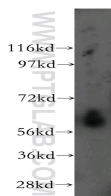
Parafibromin



Immunofluorescent analysis of Hela cells, using CDC73 antibody 12310-1-AP at 1:50 dilution and FITC-labeled donkey anti-rabbit IgG (green). Blue pseudocolor = DAPI (fluorescent DNA dye).



Immunohistochemical of paraffin-embedded human breast cancer using 12310-1-AP(HRPT2; CDC73 antibody) at dilution of 1:50 (under 10x lens)



human lung tissue were subjected to SDS PAGE followed by western blot with 12310-1-AP(HRPT2; CDC73 antibody) at dilution of 1:500

Background

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).

Applications

Tested applications:	ELISA, WB, IHC, IF, IP
Species specificity:	Human, Mouse, Rat; other species not tested.
Calculated HRPT2 MW:	531aa, 61 kDa
Observed HRPT2 MW:	61 kDa
Positive WB detected in	Human lung tissue, human heart tissue, mouse testis tissue
Positive IP detected in	Mouse testis tissue
Positive IHC detected in	Human breast cancer tissue
Positive IF detected in	Hela cells
Recommended dilution:	WB: 1:200-1:2000 IP: 1:200-1:2000 IHC: 1:20-1:200 IF: 1:20-1:200

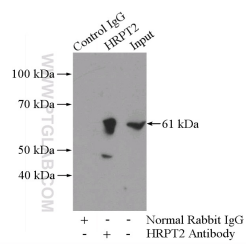
Application key: WB = Western blotting, IHC = Immunohistochemistry, IF = Immunofluorescence, IP = Immunoprecipitation

Immunogen information

Immunogen:	Ag2959
GenBank accession number:	BC014351
Gene ID (NCBI):	79577
Full name:	Cell division cycle 73, Paf1/RNA polymerase II complex component, homolog (S. cerevisiae)

Product information

Purification method:	Antigen affinity purification
Storage:	PBS with 0.1% sodium azide and 50% glycerol pH 7.3. Store at -20°C.



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