

Coilin Polyclonal Antibody

Catalog number: 10967-1-AP

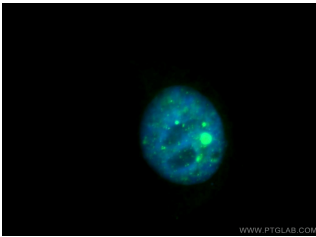
Size: 38 µg/150 µl

Source: Rabbit

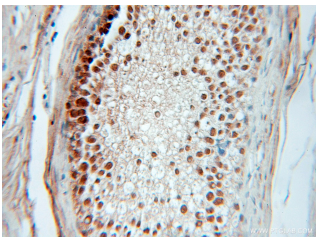
Isotype: IgG

Synonyms:

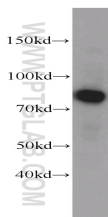
COIL; CLN80, COIL, Coilin, p80, p80 coilin



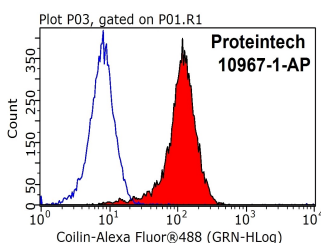
Immunofluorescent analysis of HepG2 cells, using COIL antibody 10967-1-AP at 1:50 and FITC-labeled donkey anti-rabbit IgG (green). Blue pseudocolor = DAPI (fluorescent DNA dye).



Immunohistochemical of paraffin-embedded human prostate cancer using 10967-1-AP (COIL antibody) at dilution of 1:100 (under 10x lens)



human brain tissue were subjected to SDS PAGE followed by western blot with 10967-1-AP (COIL antibody) at dilution of 1:800



Background

The nuclear coiled body (CBs) and nuclear structures known as gems contain high concentrations of the survival motor neurons (SMN) protein complex. CBs and gems often colocalize, and communication between them is mediated by COIL. COIL is a component of the CBS which are involved in the function or assembly/disassembly of nucleoplasmic snRNPs. During mitosis, CBs disassemble, coinciding with a mitotic-specific phosphorylation of p80 coilin, and symmetrical dimethylation of the COIL RG box motif is a molecular switch that determines whether the SMN complex forms gems or becomes incorporated into CBs

Applications

Tested applications:	ELISA, WB, IHC, IF, FC, IP
Cited applications:	IF, WB
Species specificity:	Human, Mouse, Rat; other species not tested.
Cited species:	Human
Calculated Coilin MW:	62.6 kDa
Observed Coilin MW:	80kd
Positive WB detected in	Human brain tissue, HEK-293 cells, Jurkat cells, K-562 cells
Positive IP detected in	HEK-293 cells
Positive IHC detected in	Human prostate cancer tissue, human testis tissue
Positive IF detected in	HepG2 cells
Positive FC detected in	HEK-293T cells
Recommended dilution:	WB: 1:500-1:5000 IP: 1:200-1:2000 IHC: 1:20-1:200 IF: 1:20-1:200 FC: N/A

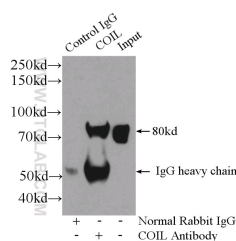
Application key: WB = Western blotting, IHC = Immunohistochemistry, IF = Immunofluorescence, IP = Immunoprecipitation

Immunogen information

Immunogen:	Ag1416
GenBank accession number:	BC010385
Gene ID (NCBI):	8161
Full name:	Coilin

Product information

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



1X10⁶ HEK-293T cells were stained with 0.2ug COIL antibody (10967-1-AP, red) and control antibody (blue). Fixed with 90% MeOH blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1000.

IP Result of anti-COIL (IP:10967-1-AP, 3ug; Detection:10967-1-AP 1:500) with HEK-293 cells lysate 1000ug.