For Research Use Only

PCF11 Polyclonal antibody

Catalog Number:23540-1-AP Featured Product 5 Publications

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Basic Information

Catalog Number:
23540-1-AP

Size:
500 ug/ml

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG20263

GenBank Accession Number:
BC146778

GeneID (NCBI):
51585

UNIPROT ID:
O94913

Full Name:
PCF11, cleavage and polyadenylation factor subunit, homolog (S. cerevisiae)

Calculated MW:
1555 aa, 173 kDa

Observed MW:
173 kDa

Purification Method:
Antigen Affinity purified

Recommended Dilutions:
WB 1:500-1:2000
IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC 1:200-1:800

Applications

Tested Applications:
WB, IHC, IP, ELISA

Cited Applications:
WB, CoIP

Species Specificity:
human

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 : K-562 cells, HeLa cells

IP : K-562 cells,

IHC : human intrahepatic cholangiocarcinoma tissue,

Background Information

In Saccharomyces cerevisiae, the cleavage/polyadenylation factor Pcf11 is a crucial regulatory factor required for recruiting polyadenylation machinery to elongating RNA polymerase II (RNAPII), and is necessary for correct transcriptional termination. Pcf11 (PCF11, cleavage and polyadenylation factor subunit, homolog (S. cerevisiae)), is a 1,555 amino acid nuclear protein that is a component of pre-mRNA cleavage complex II. It is suggested that Pcf11 is capable of promoting the dissociation of Pol II elongation complexes from DNA. Pcf11 contains a CTD-interaction domain that binds in a phospho-dependent manner to the heptad repeats within the RNA polymerase II CTD. The gene encoding Pcf11 is located on human chromosoem 11, which houses over 1,400 genes and comprises nearly 4% of the human genome. Jervell and Lange-Nielsen syndrome, Jacobsen syndrome, Niemann-Pick disease, hereditary angioedema and Smith-Lemli-Opitz syndrome are associated with defects in genes that maps to chromosome 11. This antibody is specific to the 173kd human PCF11 protein.

Notable Publications

Author	Pubmed ID	Journal	Application
Jihae Shin	34244761	Nucleic Acids Res	WB
Geneva R LaForce	35139363	Neuron	CoIP
Asya Khleborodova	27060432	Biochimie	WB

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

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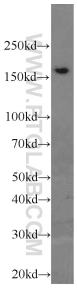
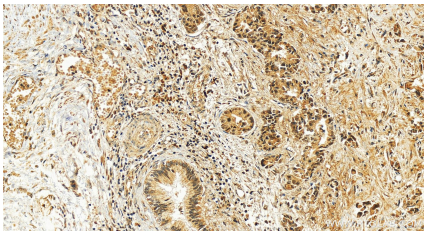
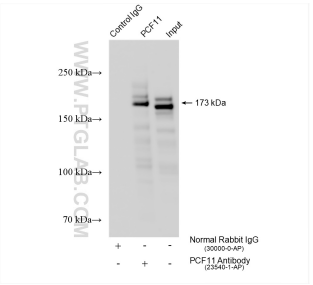
Selected Validation Data



K-562 cells were subjected to SDS PAGE followed by western blot with 23540-1-AP (PCF11 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human intrahepatic cholangiocarcinoma tissue slide using 23540-1-AP (PCF11 antibody) at dilution of 1:400 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-PCF11 (IP:23540-1-AP, 4ug; Detection:23540-1-AP 1:1000) with K-562 cells lysate 2400 ug.