

For Research Use Only

PCF11 Recombinant antibody

Catalog Number:84081-5-RR



Basic Information

Catalog Number: 84081-5-RR	GenBank Accession Number: BC146778	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 51585	CloneNo.: 241213B12
Source: Rabbit	UNIPROT ID: O94913	Recommended Dilutions: IF/ICC 1:125-1:500
Isotype: IgG	Full Name: PCF11, cleavage and polyadenylation factor subunit, homolog (S. cerevisiae)	
Immunogen Catalog Number: AG20263	Calculated MW: 1555 aa, 173 kDa	

Applications

Tested Applications: IF/ICC, FC (Intra), ELISA	Positive Controls: IF/ICC : HeLa cells,
Species Specificity: human	

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 chromosome 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 map to chromosome 11.

Storage

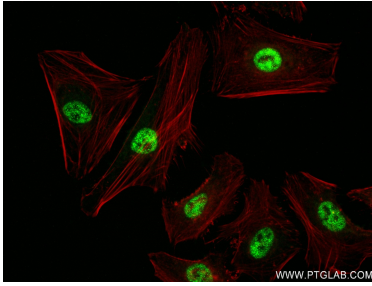
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

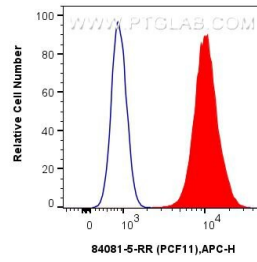
For technical support and original validation data for this product please contact:
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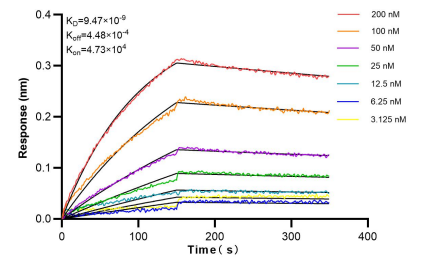
Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using PCF11 antibody (84081-5-RR, Clone: 241213B12) at dilution of 1:250 and CoraLite@488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).



1×10^6 U-2 OS were intracellularly stained with 0.25 μ g PCF11 Recombinant antibody (84081-5-RR, Clone:241213B12) and APC-Conjugated Goat Anti-Rabbit IgG(H+L)(red), or 0.25 μ g Isotype Control (blue). Cells were fixed and permeabilized with True-Nuclear Transcription Factor Buffer Set.



Biolayer interferometry (BLI) kinetic assays of 84081-5-RR against Human PCF11 were performed. The affinity constant is 9.47 nM.