

For Research Use Only

PCF11 Recombinant antibody, PBS Only

Catalog Number: 84081-4-PBS



Basic Information

Catalog Number: 84081-4-PBS	GenBank Accession Number: BC146778	Purification Method: Protein A purification
Size: 100ug, Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 51585	CloneNo.: 241213F9
Source: Rabbit	UNIPROT ID: O94913	
Isotype: IgG	Full Name: PCF11, cleavage and polyadenylation factor subunit, homolog (S. cerevisiae)	
Immunogen Catalog Number: AG20263	Calculated MW: 1555 aa, 173 kDa	
	Observed MW: 180~200 kDa	

Applications

Tested Applications:
WB, FC (Intra), Indirect ELISA

Species Specificity:
human, mouse

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

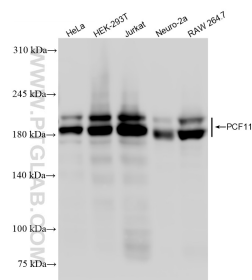
Storage:
Store at -80°C.

Storage Buffer:
PBS Only

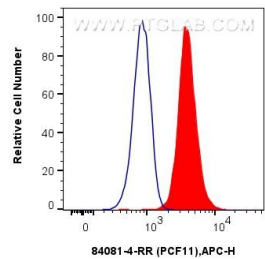
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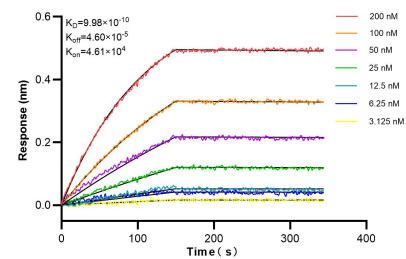
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 84081-4-RR (PCF11 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 84081-4-PBS in a different storage buffer formulation.



1x10⁶ U-2 OS were intracellularly stained with 0.25 ug PCF11 Recombinant antibody (84081-4-RR, Clone:241213F9) and APC-Conjugated Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug Isotype Control (blue). Cells were fixed and permeabilized with True-Nuclear Transcription Factor Buffer Set. This data was developed using the same antibody clone with 84081-4-PBS in a different storage buffer formulation.



Biolayer interferometry (BLI) kinetic assays of 84081-4-RR against Human PCF11 were performed. The affinity constant is 0.998 nM.