

**CPSF4 Antibody (Center)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP9617c****Specification**

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**CPSF4 Antibody (Center) - Product Information**

Application	WB,E
Primary Accession	<a href="#">O95639</a>
Other Accession	<a href="#">Q6DJP7</a> , <a href="#">Q5FVR7</a> , <a href="#">O19137</a>
Reactivity	Human
Predicted	Bovine, Rat, Xenopus
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	96-123

**CPSF4 Antibody (Center) - Additional Information****Gene ID** 10898**Other Names**

Cleavage and polyadenylation specificity factor subunit 4, Cleavage and polyadenylation specificity factor 30 kDa subunit, CPSF 30 kDa subunit, NS1 effector domain-binding protein 1, Neb-1, No arches homolog, CPSF4, CPSF30, NAR, NEB1

**Target/Specificity**

This CPSF4 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 96-123 amino acids from the Central region of human CPSF4.

**Dilution**

WB~~1:1000

E~~Use at an assay dependent concentration.

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

CPSF4 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

**CPSF4 Antibody (Center) - Protein Information****Name** CPSF4

**Synonyms** CPSF30, NAR, NEB1

**Function** Component of the cleavage and polyadenylation specificity factor (CPSF) complex that play a key role in pre-mRNA 3'-end formation, recognizing the AAUAAA signal sequence and interacting with poly(A) polymerase and other factors to bring about cleavage and poly(A) addition. CPSF4 binds RNA polymers with a preference for poly(U).

**Cellular Location**

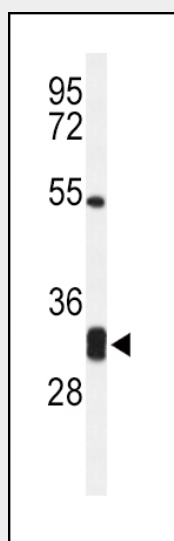
Nucleus.

**CPSF4 Antibody (Center) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**CPSF4 Antibody (Center) - Images**



Western blot analysis of CPSF4 Antibody (Center) (Cat. #AP9617c) in Jurkat cell line lysates (35ug/lane). CPSF4 (arrow) was detected using the purified Pab.

**CPSF4 Antibody (Center) - Background**

Inhibition of the nuclear export of poly(A)-containing mRNAs caused by the influenza A virus NS1 protein requires its effector domain. The NS1 effector domain functionally interacts with the cellular 30 kDa subunit of cleavage and polyadenylation specific factor 4, an essential component of the 3' end processing machinery of cellular pre-mRNAs. In influenza virus-infected cells, the NS1 protein is physically associated with cleavage and polyadenylation specific factor 4, 30kD subunit. Binding of the NS1 protein to the 30 kDa protein in vitro prevents CPSF binding to the RNA substrate and inhibits 3' end cleavage and polyadenylation of host pre-mRNAs. Thus the NS1 protein selectively

inhibits the nuclear export of cellular, and not viral, mRNAs.

#### **CPSF4 Antibody (Center) - References**

Twu, K.Y., et al. J. Virol. 81(15):8112-8121(2007)  
Oh, J.H., et al. Mamm. Genome 16(12):942-954(2005)  
Kaufmann, I., et al. EMBO J. 23(3):616-626(2004)  
de Vries, H., et al. EMBO J. 19(21):5895-5904(2000)