SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-CPSF4 antibody

Catalog Number: SL2253R

FOR RESEARCH USE ONLY

[DATASHEET]

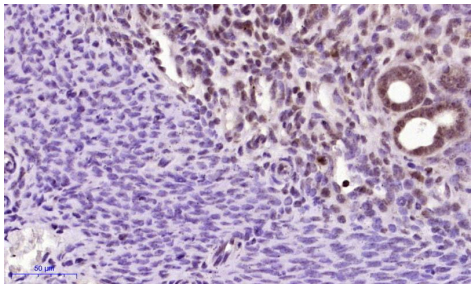
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	CPSF4
Immunogen:	KLH conjugated synthetic peptide derived from human CPSF4/CPSF30: 81-180/269
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	IHC-P=1:100-500 IHC-F=1:100-500 IF=1:100-500 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Mouse(predicted:Human,Rat,Chicken,Dog,Pig,Cow,Horse,Rabbit)
Predicted MW.:	27kDa
Subcellular Location:	The nucleus
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. Multiple alternatively spliced transcript variants that encode different isoforms have been described for this

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	gene. [provided by RefSeq, Jul 2008] **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). **Subunit:** Component of the cleavage and polyadenylation specificity factor (CPSF) complex, composed of CPSF1, CPSF2, CPSF3, CPSF4 and FIP1L1. Interacts with FIP1L1. **Subcellular Location:** Nucleus. **Similarity:** Belongs to the CPSF4/YTH1 family. Contains 5 C3H1-type zinc fingers. Contains 1 CCHC-type zinc finger. **Database links:** **Entrez Gene:** 10898 Human **Entrez Gene:** 54188 Mouse **Entrez Gene:** 304277 Rat Omim: 603052 Human **SwissProt:** O95639 Human **SwissProt:** Q8BQZ5 Mouse **SwissProt:** Q5FVR7 Rat **Unigene:** 489287 Human **Unigene:** 196884 Mouse **Unigene:** 104788 Rat

[VALIDATION IMAGES]



Paraformaldehyde-fixed, paraffin embedded (Mouse uterus); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (CPSF4) Polyclonal Antibody, Unconjugated (SL2253R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

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