10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

CPSF4 Rabbit pAb

Catalog # AP98419

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	O95639
Other Accession	O95639
Reactivity	Mouse
Predicted	Rat, Pig, Human, Rabbit, Chicken, Dog, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	30255
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human CPSF4/CPSF30
Epitope Specificity	81-180/269
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the CPSF4/YTH1 family. Contains 5 C3H1-type zinc fingers. Contains 1 CCHC-type zinc finger.
SUBUNIT	Component of the cleavage and polyadenylation specificity factor (CPSF) complex, composed of CPSF1, CPSF2, CPSF3, CPSF4 and FIP1L1. Interacts with FIP1L1.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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 gene. [provided by RefSeq, Jul 2008]

Additional Information

Gene ID	10898
Other Names	CPSF30; NAR; NEB-1; NEB1; 30kDa; CPSF4_HUMAN; CPSF4; Cleavage and polyadenylation specificity factor 30 kDa subunit (CPSF 30 kDa subunit); NS1 effector domain-binding protein 1 (Neb-1); No arches homolog; CPSF4_MOUSE; Clipper homolog; Clipper/CPSF 30K; CPSF4_RAT; cleavage and polyadenylation specific factor 4; cleavage and polyadenylation specific factor

	4, 30kD subunit; cleavage and polyadenylation specific factor 4, 30kDa
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

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.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.