CPSF4 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CPSF4, Polyclonal Antibody
Full Product Name	CPSF4
Product Gene Name	anti-CPSF4 antibody
Product Synonym Gene Name	CPSF30; NAR; NEB-1; NEB1
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human Predicted: Rat, Mouse
Form/Format	Already dissolved in sterile H2O with 1% BSA and 0.02% NaN3 and 50% Glycerol.
Purity/Purification	Purified By Antigen Affinity Column
Molecular Weight	18kDa
Immunogen	Recombinant fragment corresponding to 14-171aa of human CPSF4.
Cellular Localization	Nucleus
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-CPSF4 antibody	ELISA (EIA), Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-CPSF4 antibody	ELISA: 1:20,000-80,000 WB: 1:200-1,000 IHC: 1:100-500
Related Product Information for anti-CPSF4 antibody	MBS8561307 is an antibody targeting CPSF4. Reactive in Human Predicted: Rat, Mouse. Host: Rabbit. Homo sapiens cleavage and polyadenylation specific factor 4, 30kDa, mRNA
Product References and Citations for anti-CPSF4 antibody	Rolland T, Tasan M, Charloteaux B. et al. A proteome-scale map of the human interactome network. Cell. 159(5):1212-26 (2014)
Other Notes	Small volumes of anti-CPSF4 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CPSF4. It may not necessarily be applicable to this product.

NCBI GI #	29792108
NCBI GeneID	10898
NCBI Accession #	BC050738
UniProt Related Accession #	O95639
NCBI Official Full Name	Homo sapiens cleavage and polyadenylation specific factor 4, 30kDa, mRNA

NCBI Official Synonym Full Names	cleavage and polyadenylation specific factor 4
NCBI Official Symbol	CPSF4
NCBI Official Synonym Symbols	NAR; NEB1; NEB-1; CPSF30
Protein Family	Cleavage and polyadenylation specificity factor
NCBI Protein Information	cleavage and polyadenylation specificity factor subunit 4
NCBI Summary for CPSF4	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]
Research Articles on CPSF4	**1.** The authors define the molecular architecture of the core human CPSF complex comprising CPSF160, WDR33, CPSF30 and Fip1 and identify specific domains involved in inter-subunit interactions. Together, these results shed light on the function of CPSF in mediating polyA signal-dependent RNA cleavage and polyadenylation.
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