

CPSF4

Reactivity: Human

Tested applications: WB

Recommended Dilution: WB 1:1000 - 1:2000

Calculated MW: 30kDa

Observed MW: Refer to figures

Immunogen:

Recombinant protein of human CPSF4

Storage Buffer:

Store at -20. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Synonym:

NAR; NEB1; NEB-1; CPSF30;

Catalog #: A10284

Antibody Type:

Polyclonal Antibody

Species: Rabbit

Gene ID: 10898

Isotype: IgG

Swiss Prot: O95639

Purity: Affinity purification

For research use only.

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 gene.

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