

CPSF7 Antibody (C-term) Blocking peptide
Synthetic peptide
Catalog # BP12151b**Specification**

CPSF7 Antibody (C-term) Blocking peptide - Product InformationPrimary Accession [Q8N684](#)**CPSF7 Antibody (C-term) Blocking peptide - Additional Information****Gene ID** 79869**Other Names**

Cleavage and polyadenylation specificity factor subunit 7, Cleavage and polyadenylation specificity factor 59 kDa subunit, CFIm59, CPSF 59 kDa subunit, Pre-mRNA cleavage factor Im 59 kDa subunit, CPSF7

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

CPSF7 Antibody (C-term) Blocking peptide - Protein Information**Name** CPSF7 ([HGNC:30098](#))**Function**

Component of the cleavage factor Im (CFIm) complex that functions as an activator of the pre-mRNA 3'-end cleavage and polyadenylation processing required for the maturation of pre-mRNA into functional mRNAs (PubMed: [8626397](http://www.uniprot.org/citations/8626397)), PubMed: [17024186](http://www.uniprot.org/citations/17024186)), PubMed: [29276085](http://www.uniprot.org/citations/29276085)). CFIm contributes to the recruitment of multiprotein complexes on specific sequences on the pre-mRNA 3'-end, so called cleavage and polyadenylation signals (pA signals) (PubMed: [8626397](http://www.uniprot.org/citations/8626397)), PubMed: [17024186](http://www.uniprot.org/citations/17024186)). Most pre-mRNAs contain multiple pA signals, resulting in alternative cleavage and polyadenylation (APA) producing mRNAs with variable 3'-end formation (PubMed: [23187700](http://www.uniprot.org/citations/23187700)), PubMed: [29276085](http://www.uniprot.org/citations/29276085)). The CFIm complex acts as a key regulator of cleavage and polyadenylation site choice during APA through its binding to 5'-UGUA-3' elements localized in the 3'- untranslated region (UTR) for a huge number of pre-mRNAs (PubMed: [20695905](http://www.uniprot.org/citations/20695905))

target="_blank">20695905, PubMed:29276085). CPSF7 activates directly the mRNA 3'-processing machinery (PubMed:29276085). Binds to pA signals in RNA substrates (PubMed:8626397, PubMed:17024186).

Cellular Location

Nucleus. Cytoplasm Note=Shuttles between the nucleus and the cytoplasm in a transcription- and XPO1/CRM1-independent manner, most probably in complex with the cleavage factor Im complex (CFIm) (PubMed:19864460)

CPSF7 Antibody (C-term) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

CPSF7 Antibody (C-term) Blocking peptide - Images**CPSF7 Antibody (C-term) Blocking peptide - Background**

CPSF7 is probable a component of the cleavage factor Im complex (CFIm) that plays a key role in pre-mRNA 3' processing. Binds to cleavage and polyadenylation RNA substrates.

CPSF7 Antibody (C-term) Blocking peptide - References

Olsen, J.V., et al. Cell 127(3):635-648(2006)Lim, J., et al. Cell 125(4):801-814(2006)Brill, L.M., et al. Anal. Chem. 76(10):2763-2772(2004)Zhou, Z., et al. Nature 419(6903):182-185(2002)Rueggsegger, U., et al. J. Biol. Chem. 271(11):6107-6113(1996)