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CPSF7 Antibody (C-term) Blocking peptide

Synthetic peptide
Catalog # BP12151b

Specification

CPSF7 Antibody (C-term) Blocking peptide - Product Information

Primary 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, PubMed:17024186, PubMed: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, PubMed:17024186). Most pre-mRNAs contain multiple pA signals, resulting in alternative cleavage and polyadenylation (APA) producing mRNAs with variable 3'-end formation (PubMed:23187700, PubMed: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:<a href="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)Ruegsegger, U., et al. J. Biol. Chem. 271(11):6107-6113(1996)