

LARP7 Antibody (C-term) Blocking peptide
Synthetic peptide
Catalog # BP12990b**Specification****LARP7 Antibody (C-term) Blocking peptide -
Product Information**Primary Accession [Q4G0J3](#)**LARP7 Antibody (C-term) Blocking peptide -
Additional Information****Gene ID** 51574**Other Names**La-related protein 7, La ribonucleoprotein
domain family member 7,
P-TEFb-interaction protein for 7SK stability,
PIP7S, LARP7**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.**LARP7 Antibody (C-term) Blocking peptide -
Protein Information****Name** LARP7{ECO:0000303|PubMed:18483487,
ECO:0000312|HGNC:HGNC:24912}**Function**RNA-binding protein that specifically binds
distinct small nuclear RNA (snRNAs) and
regulates their processing and function
(PubMed:<a href="http://www.uniprot.org/c
itations/18249148"
target="_blank">18249148),**LARP7 Antibody (C-term) Blocking peptide
- Background**LARP7 is a negative transcriptional regulator
of polymerase II genes, acting by means of the
7SK RNP system. Within the 7SK RNP complex,
the positive transcription elongation factor b
(P-TEFb) is sequestered in an inactive form,
preventing RNA polymerase II phosphorylation
and subsequent transcriptional elongation.**LARP7 Antibody (C-term) Blocking peptide
- References**Tyagi, M., et al. J. Virol.
84(13):6425-6437(2010)Kalsi, G., et al. Hum.
Mol. Genet. 19(12):2497-2506(2010)Markert,
A., et al. EMBO Rep.
9(6):569-575(2008)Krueger, B.J., et al. Nucleic
Acids Res. 36(7):2219-2229(2008)He, N., et al.
Mol. Cell 29(5):588-599(2008)

PubMed:32017898). Specifically binds the 7SK snRNA (7SK RNA) and acts as a core component of the 7SK ribonucleoprotein (RNP) complex, thereby acting as a negative regulator of transcription elongation by RNA polymerase II (PubMed:18249148, PubMed:18483487). The 7SK RNP complex sequesters the positive transcription elongation factor b (P-TEFb) in a large inactive 7SK RNP complex preventing RNA polymerase II phosphorylation and subsequent transcriptional elongation (PubMed:18249148, PubMed:18483487). The 7SK RNP complex also promotes snRNA gene transcription by RNA polymerase II via interaction with the little elongation complex (LEC) (PubMed:28254838). LARP7 specifically binds to the highly conserved 3'-terminal U-rich stretch of 7SK RNA; on stimulation, remains associated with 7SK RNA, whereas P-TEFb is released from the complex (PubMed:18483487, PubMed:18281698). LARP7 also acts as a regulator of mRNA splicing fidelity by promoting U6 snRNA processing (PubMed:32017898). Specifically binds U6 snRNAs and associates with a subset of box C/D RNP complexes: promotes U6 snRNA 2'-O-methylation by facilitating U6 snRNA loading into box C/D RNP complexes (PubMed:32017898). U6 snRNA 2'-O-methylation is required for mRNA splicing fidelity (PubMed:32017898). Binds U6

snRNAs with a 5'- CAGGG-3' sequence motif (PubMed:32017898). U6 snRNA processing is required for spermatogenesis (By similarity).

Cellular Location

Nucleus, nucleoplasm

**LARP7 Antibody (C-term) Blocking peptide
- Protocols**

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

- [Blocking Peptides](#)