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NXF1 Antibody (N-term) Blocking Peptide

Synthetic peptide
Catalog # BP14539a

Specification

NXF1 Antibody (N-term) Blocking Peptide - Product Information

Primary Accession Q9UBU9

NXF1 Antibody (N-term) Blocking Peptide - Additional Information

Gene ID 10482

Other Names
Nuclear RNA export factor 1, Tip-associated protein, Tip-associating protein, mRNA export factor TAP, NXF1, TAP

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.

NXF1 Antibody (N-term) Blocking Peptide - Protein Information

Name NXF1

Synonyms TAP

Function
Involved in the nuclear export of mRNA species bearing retroviral constitutive transport elements (CTE) and in the export of mRNA from the nucleus to the cytoplasm (TAP/NFX1 pathway) (PubMed:10924507). The NXF1-NXT1 heterodimer is involved in the export of HSP70 mRNA in conjunction with ALYREF/THOC4 and THOC5 components of the TREX complex (PubMed:18364396, PubMed:19165146, PubMed:9660949). ALYREF/THOC4-bound mRNA is thought to be transferred to the NXF1-NXT1 heterodimer for export (PubMed:18364396, PubMed:19165146, PubMed:9660949). Also involved in nuclear export of m6A-containing mRNAs: interaction between SRSF3 and YTHDC1 facilitates m6A-containing mRNA-binding to both SRSF3 and NXF1, promoting mRNA nuclear export (PubMed:<a href="http://www.uniprot.org/citations/28984244"

target="_blank">28984244).

Cellular Location
Nucleus. Nucleus, nucleoplasm Nucleus speckle. Nucleus, nuclear pore complex. Nucleus envelope. Cytoplasm. Cytoplasm, Stress granule. Note=Localized predominantly in the nucleoplasm and at both the nucleoplasmic and cytoplasmic faces of the nuclear pore complex. Shuttles between the nucleus and the cytoplasm. Travels to the cytoplasm as part of the exon junction complex (EJC) bound to mRNA. The association with the TREX complex seems to occur in regions surrounding nuclear speckles known as perispeckles (PubMed:23826332). Nucleus; nuclear rim (PubMed:25662211)

Tissue Location
Expressed ubiquitously.

NXF1 Antibody (N-term) Blocking Peptide - Protocols

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

- Blocking Peptides

NXF1 Antibody (N-term) Blocking Peptide - Images

NXF1 Antibody (N-term) Blocking Peptide - Background

This gene is one member of a family of nuclear RNA exportfactor genes. Common domain features of this family are anoncanonical RNP-type RNA-binding domain (RBD), 4 leucine-richrepeats (LRRs), a nuclear transport factor 2 (NTF2)-like domainthat allows heterodimerization with NTF2-related export protein-1(NXT1), and a ubiquitin-associated domain that mediatesinteractions with nucleoporins. The LRRs and NTF2-like domains arerequired for export activity. Alternative splicing seems to be acommon mechanism in this gene family. The encoded protein of thisgene shuttles between the nucleus and the cytoplasm and binds invivo to poly(A)+ RNA. It is the vertebrate homologue of the yeastprotein Mex67p. The encoded protein overcomes the mRNA export blockcaused by the presence of saturating amounts of CTE (constitutivetransport element) RNA of type D retroviruses. Alternative splicingresults in multiple transcript variants.

NXF1 Antibody (N-term) Blocking Peptide - References

Read, E.K., et al. J. Gen. Virol. 91 (PT 5), 1290-1301 (2010) :Corbin-Lickfett, K.A., et al. J. Virol. 84(5):2212-2222(2010)Hautbergue, G.M., et al. Curr. Biol. 19(22):1918-1924(2009)Uranishi, H., et al. J. Biol. Chem. 284(38):26106-26116(2009)Ote, I., et al. PLoS ONE 4 (11), E7882 (2009) :