

TNPO3 Antibody (C-term) Blocking peptide
Synthetic peptide
Catalog # BP5516b**Specification**

TNPO3 Antibody (C-term) Blocking peptide - Product Information

Primary Accession [O9Y5L0](#)
Other Accession [NP_036602](#)

TNPO3 Antibody (C-term) Blocking peptide - Additional Information

Gene ID 23534

Other Names

Transportin-3, Importin-12, Imp12, Transportin-SR, TRN-SR, TNPO3, IPO12

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.

TNPO3 Antibody (C-term) Blocking peptide - Protein Information

Name TNPO3 {ECO:0000303|PubMed:23667635, ECO:0000312|HGNC:HGNC:17103}

Function

Importin, which transports target proteins into the nucleus (PubMed:10366588, PubMed:10713112, PubMed:11517331, PubMed:12628928, PubMed:24449914). Specifically mediates the nuclear import of splicing factor serine/arginine (SR) proteins, such as RBM4, SFRS1 and SFRS2, by recognizing phosphorylated SR domains (PubMed:10366588, PubMed:10713112, PubMed:11517331, PubMed:12628928, PubMed:24449914). Also mediates the nuclear import of serine/arginine (SR) protein CPSF6, independently of CPSF6 phosphorylation (PubMed:30916345, PubMed:31465518). The nuclear import process is regulated by the small GTPase

Ran that partitions between cytoplasm and nucleus in the predominantly GDP- and GTP-bound form, respectively (PubMed:23878195, PubMed:24449914). Importin associates with target cargo proteins in the cytoplasm, and the competitive binding of GTP-bound Ran induces the release of cargos in the nucleus (PubMed:23878195, PubMed:24449914).

Cellular Location

Nucleus envelope. Cytoplasm. Note=Localizes to the nuclear envelope and annulate lamellae, which consists in stacks of endoplasmic reticulum membranes containing a high density of nuclear pores

Tissue Location

Expressed in skeletal muscle.

TNPO3 Antibody (C-term) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

TNPO3 Antibody (C-term) Blocking peptide - Images**TNPO3 Antibody (C-term) Blocking peptide - Background**

TNPO3 is a nuclear import receptor for serine/arginine-rich (SR) proteins, which are essential precursor-mRNA splicing factors.

TNPO3 Antibody (C-term) Blocking peptide - References

Krishnan, L., et al. J. Virol. 84(1):397-406(2010) Hirschfield, G.M., et al. N. Engl. J. Med. 360(24):2544-2555(2009) Ito, I., et al. Arthritis Rheum. 60(6):1845-1850(2009)