

# TNPO3 Antibody

Rabbit mAb

Catalog # AP91916

## Product Information

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<b>Application</b>	WB, IHC, IF, ICC, IHF
<b>Primary Accession</b>	<a href="#">Q9Y5L0</a>
<b>Reactivity</b>	Rat, Human, Mouse
<b>Clonality</b>	Monoclonal
<b>Other Names</b>	TNPO 3; Imp12; Importin 12; IPO12; MTR10A; TNPO3; Transportin 3; Transportin SR; TRN-SR2; TRNSR;
<b>Isotype</b>	Rabbit IgG
<b>Host</b>	Rabbit
<b>Calculated MW</b>	104203

## Additional Information

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<b>Dilution</b>	WB 1:500~1:2000 IHC 1:50~1:200 ICC/IF 1:50~1:200
<b>Purification</b>	Affinity-chromatography
<b>Immunogen</b>	A synthesized peptide derived from human TNPO3
<b>Description</b>	Seems to function in nuclear protein import as nuclear transport receptor. In vitro, mediates the nuclear import of splicing factor SR proteins SFRS1 and SFRS2, by recognizing phosphorylated RS domains.
<b>Storage Condition and Buffer</b>	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

## Protein Information

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<b>Name</b>	TNPO3 {ECO:0000303   PubMed:23667635, ECO:0000312   HGNC:HGNC:17103}
<b>Function</b>	Importin, which transports target proteins into the nucleus (PubMed: <a href="#">10366588</a> , PubMed: <a href="#">10713112</a> , PubMed: <a href="#">11517331</a> , PubMed: <a href="#">12628928</a> , PubMed: <a href="#">24449914</a> ). Specifically mediates the nuclear import of splicing factor serine/arginine (SR) proteins, such as RBM4, SFRS1 and SFRS2, by recognizing phosphorylated SR domains (PubMed: <a href="#">10366588</a> , PubMed: <a href="#">10713112</a> , PubMed: <a href="#">11517331</a> , PubMed: <a href="#">12628928</a> , PubMed: <a href="#">24449914</a> ). Also mediates the nuclear import of serine/arginine (SR) protein CPSF6, independently of CPSF6 phosphorylation (PubMed: <a href="#">30916345</a> , PubMed: <a href="#">31465518</a> ). 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: <a href="#">23878195</a> , PubMed: <a href="#">24449914</a> ). 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: <a href="#">23878195</a> , PubMed: <a href="#">24449914</a> ).

**Cellular Location**

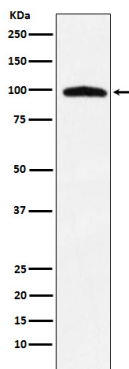
Nucleus envelope. Cytoplasm. Note=Localizes to the nuclear envelope and annulate lamellae, which consists in stacks of endoplasmic reticulum membranes containing a high density of nuclear pores

**Tissue Location**

Expressed in skeletal muscle.

**Images**

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Western blot analysis of TNPO3 expression in Ramos cell lysate.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.