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TNPO3 Antibody

Rabbit mAb
Catalog # AP91916

Product Information

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

Additional Information

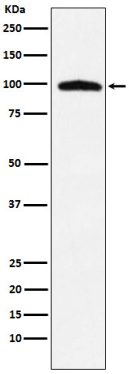
Dilution	WB 1:500~1:2000 IHC 1:50~1:200 ICC/IF 1:50~1:200
Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human TNPO3
Description	Seems to function in nuclear protein import as nuclear transport receptor. In vitro, mediates the nuclear import of splicing factor SR proteins SFRS1 and SFRS2, by recognizing phosphorylated RS domains.
Storage Condition and Buffer	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

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.

Images



Western blot analysis of TNPO3 expression in Ramos cell lysate.

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