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**Product Name: KD-Validated Transportin 3 Recombinant Rabbit Monoclonal Antibody**  
**Catalog #: KVA01257**

For research use only.

## Summary

<b>Description</b>	KO&KD-Validated antibody
<b>Host</b>	Rabbit
<b>Application</b>	WB,FCM,ICC
<b>Reactivity</b>	Human,Mouse,Rat
<b>Conjugation</b>	Unconjugated
<b>Modification</b>	Unmodified
<b>Isotype</b>	Rabbit IgG
<b>Clonality</b>	Rabbit mAb
<b>Form</b>	Liquid
<b>Storage</b>	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
<b>Shipping</b>	Ice bags
<b>Buffer</b>	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
<b>Purification</b>	Affinity purification

## Application

<b>Dilution Ratio</b>	WB 1:2,000-1:10,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
<b>Molecular Weight</b>	Calculated MW: 104.2kDa

## Antigen Information

<b>Gene Name</b>	TNPO3 TNPO3; Transportin 3; TRN-SR; IPO12; TRN-SR2; MTR10A; Limb Girdle Muscular Dystrophy
<b>Alternative Names</b>	1F (Autosomal Dominant); Transportin-SR; Transportin-3; Importin 12; LGMD1F; Imp12; Importin-12; LGMDD2; TRNSR
<b>Gene ID</b>	23534.0
<b>SwissProt ID</b>	Q9Y5L0
<b>Immunogen</b>	A synthesized peptide derived from human TNPO3

## Background

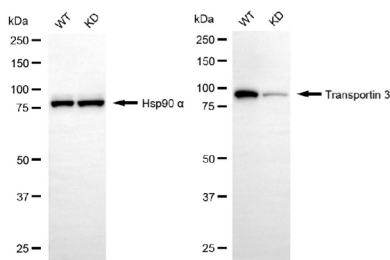
The protein encoded by this gene is a nuclear import receptor for serine/arginine-rich (SR) proteins such as the splicing factors SFRS1 and SFRS2. The encoded protein has also been shown to be involved in HIV-1 infection, apparently through interaction

with the HIV-1 capsid protein. Several protein-coding and non-coding transcript variants have been found for this gene. [provided by RefSeq, Apr 2020]

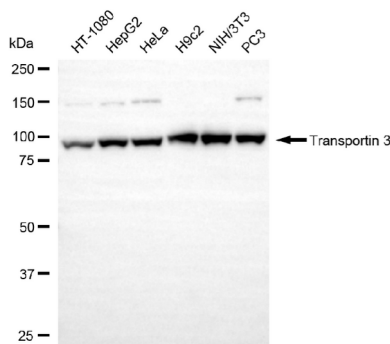
## Research Area

Signal Transduction, Epigenetics and Nuclear Signaling

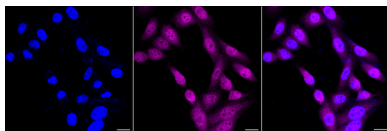
## Image Data



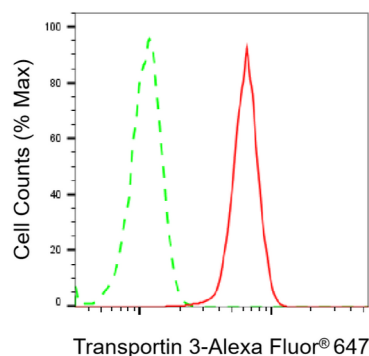
Western blotting analysis using transportin 3 antibody (KVA01257). Transportin 3 expression in wild-type (WT) and transportin 3 (TNPO3) knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with transportin 3 antibody (KVA01257, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using transportin 3 antibody (KVA01257). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with transportin 3 antibody (KVA01257, 1:10,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HepG2 cells with Transportin 3 antibody (KVA01257, 1:1,000). Nuclei were stained blue with DAPI; Transportin 3 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: High. Scale bar, 20 µm.



Flow cytometric analysis of Transportin 3 expression in HepG2 cells using Transportin 3 antibody (KVA01257, 1:2,000). Green, isotype control; red, Transportin 3.