

Product Datasheet

Transportin 1 Antibody (D45) - BSA Free NB600-1397

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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NB600-1397

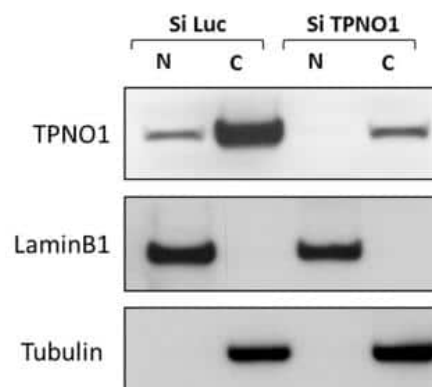
Transportin 1 Antibody (D45) - BSA Free

Product Information	
Unit Size	0.1 ml
Concentration	1.0 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	D45
Preservative	0.02% Sodium Azide
Isotype	IgG1
Purity	Protein G purified
Buffer	PBS
Product Description	
Description	Novus Biologicals Mouse Transportin 1 Antibody (D45) - BSA Free (NB600-1397) is a monoclonal antibody validated for use in IHC, WB, Flow, ICC/IF and IP. Anti-Transportin 1 Antibody: Cited in 8 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Mouse
Gene ID	3842
Gene Symbol	TNPO1
Species	Human, Mouse, Bovine, Canine, Monkey, Rabbit
Reactivity Notes	Mouse reactivity reported in scientific literature (PMID: 15738418).
Immunogen	Human recombinant His-tagged Transportin 1. [UniProt# Q92973]
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Flow Cytometry, Flow (Intracellular), Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunoprecipitation, Microarray, CyTOF-ready
Recommended Dilutions	Western Blot 0.1-0.2 ug/ml, Flow Cytometry, Immunohistochemistry 1:10-1:500, Immunocytochemistry/ Immunofluorescence reported in scientific literature (PMID 9298975), Immunoprecipitation 1:10-1:500, Immunohistochemistry-Paraffin 1:10-1:500. Use reported in scientific literature (PMID 24647604), Microarray, Flow (Intracellular), CyTOF-ready
Application Notes	WB: Detects a band of approximately 93 kDa. The observed molecular weight of the protein may vary from the listed predicted molecular weight due to post translational modifications, post translation cleavages, relative charges, and other experimental factors. This antibody is CyTOF ready.

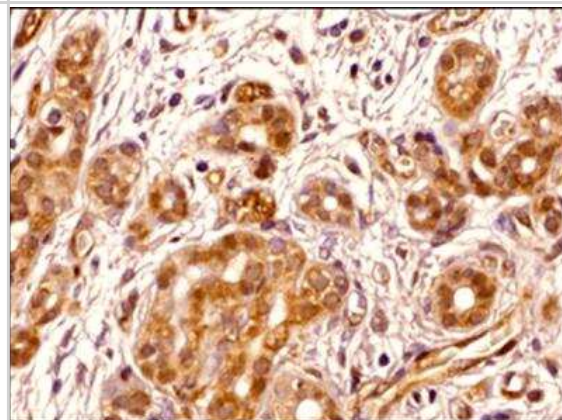


Images

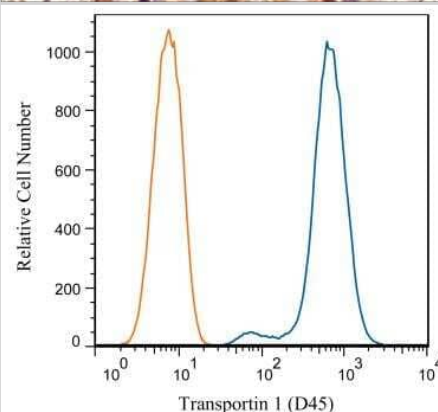
Western Blot: Transportin 1 Antibody (D45) [NB600-1397] - Human lung cancer cell line using lysates from HCC44 cell line. (N: Nuclear fraction, C: Cytoplasmic fraction). Image from verified customer review.



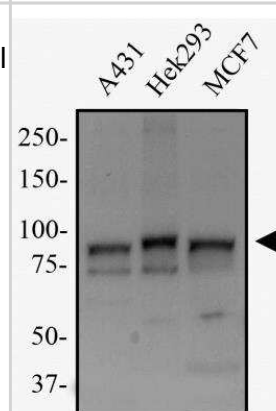
Immunohistochemistry-Paraffin: Transportin 1 Antibody (D45) [NB600-1397] - IHC analysis of a formalin fixed paraffin embedded tissue section of human pancreas using Transportin 1 antibody (clone D45) at 1:200 dilution. The antibody generated specific nuclear and cytoplasmic signal of Transportin 1 protein in the glandular cells while the connective tissue was largely negative.



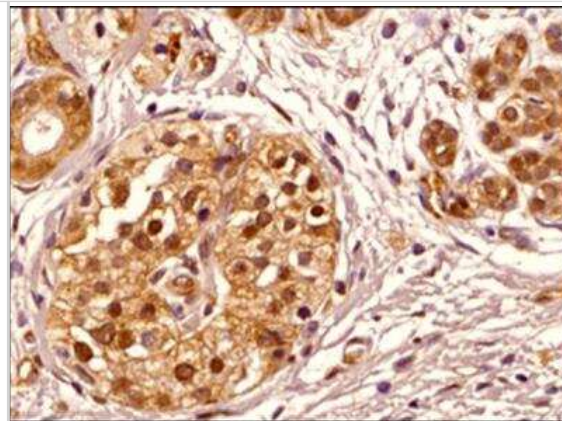
Flow (Intracellular): Transportin 1 Antibody (D45) [NB600-1397] - HeLa cells were stained with Transportin 1 NB600-1397 (blue) and a matched isotype control NBP2-27287 (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 1 ug/mL for 30 minutes at room temperature, followed by Dylight488-conjugated anti-mouse secondary antibody.



Western Blot: Transportin 1 Antibody (D45) [NB600-1397] - Whole cell protein from A431, Hek293 and MCF7 cells was separated on a 7.5% gel by SDS-PAGE, transferred to PVDF membrane and blocked in 5% non-fat milk in TBST. The membrane was probed with 1.0 ug/ml anti-Transportin 1 (D45) in 1% milk, and detected with an anti-mouse HRP secondary antibody using chemiluminescence.



Immunohistochemistry-Paraffin: Transportin 1 Antibody (D45) [NB600-1397] - IHC analysis of a formalin fixed paraffin embedded tissue section of human pancreas using Transportin 1 antibody (clone D45) at 1:200 dilution. The antibody generated specific nuclear and cytoplasmic signal of Transportin 1 protein in the glandular cells while the connective tissue was largely negative.



Publications

Guo L, Kim H J et al. Nuclear-Import Receptors Reverse Aberrant Phase Transitions of RNA-Binding Proteins with Prion-like Domains. *Cell* 2018-04-19 [PMID: 29677512]

Stang TE, Salapa HE, Clarke JWE et al. Heterogeneous Nuclear Ribonucleoprotein A1 Knockdown Alters Constituents of Nucleocytoplasmic Transport *Brain Sciences* 2024-10-19 [PMID: 39452051]

Fare CM, Rhine K, Lam A et al. A minimal construct of nuclear-import receptor Karyopherin- β 2 defines the regions critical for chaperone and disaggregation activity *The Journal of biological chemistry* 2022-12-15 [PMID: 36529289] (WB, Human)

Korobeynikov V Therapeutic strategies targeting FUS toxicity in amyotrophic lateral sclerosis: from a novel mouse model of disease to a first-in-human study *Thesis* 2021-01-01 (WB, Mouse)

Allemand E, Guil S, Myers M et al. Regulation of heterogeneous nuclear ribonucleoprotein A1 transport by phosphorylation in cells stressed by osmotic shock. *Proc Natl Acad Sci U S A.* 2005-03-08 [PMID: 15738418] (WB, Mouse)

Siomi MC, Eder PS, Kataoka N et al. Transportin-mediated nuclear import of heterogeneous nuclear RNP proteins. *J Cell Biol.* 1997-09-22 [PMID: 9298975] (ICC/IF, WB, IP, Human)

Suzuki M, Iijima M, Nishimura A et al. Two separate regions essential for nuclear import of the hnRNP D nucleocytoplasmic shuttling sequence. *FEBS J.* 2005-08-01 [PMID: 16045768] (WB, Human)

Kawamura H, Tomozoe Y, Akagi T et al. Identification of the nucleocytoplasmic shuttling sequence of heterogeneous nuclear ribonucleoprotein D-like protein JKTBP and its interaction with mRNA. *J Biol Chem.* 2002-01-25 [PMID: 11705999] (WB, Human)

Vieira NM, Naslavsky MS, Licinio L et al. A defect in the RNA-processing protein HNRPD causes limb-girdle muscular dystrophy 1G (LGMD1G). *Hum. Mol. Genet.* 2014-03-18 [PMID: 24647604] (IHC-P, Human)



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Products Related to NB600-1397

NB800-PC9	HeLa Nuclear Cell Lysate
NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB7539	Goat anti-Mouse IgG (H+L) Secondary Antibody [HRP]
NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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