

Rabbit anti-Human NXF1 Polyclonal Antibody | anti-NXF1 antibody

Anti-NXF1 Antibody, Rabbit Polyclonal

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA256027	Rabbit	Human	Immunoprecipitation, Immunofluorescence, Immunocytochemistry, Western Blot

PRODUCT SYNONYMS

NXF1; Polyclonal Antibody; Anti-NXF1 Antibody; Rabbit Polyclonal; NXF1 Antibody; Rabbit PAb; Antigen Affinity Purified; nuclear RNA export factor 1; Anti-MEX67 Antibody; Anti-TAP Antibody; anti-NXF1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Human NXF1
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; PBS, pH7.0 with 0.03% Proclin300
Applicable Applications for anti-NXF1 antibody	IP (Immunoprecipitation), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	E Coli-derived Human NXF1 fragment
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with E Coli-derived Human NXF1 fragment, and purified by antigen affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Avoid repeated freeze-thaw cycles.

IMAGES



IP (Immunoprecipitation)

NXF1 was immunoprecipitated using: Lane A: 0.5 mg HeLa Whole Cell Lysate 4 uL anti-NXF1 rabbit polyclonal antibody and 60 ug of Immunomagnetic beads Protein A/G. Primary antibody: Anti-NXF1 rabbit polyclonal antibody, at 1:100 dilution. Secondary antibody: Goat Anti-Rabbit IgG (H+L)/HRP at 1/10000 dilution. Developed using the ECL technique. Performed under reducing conditions. Predicted band size: 70 kDa. Observed band size: 72 kDa.



IF (Immunofluorescence)

Immunofluorescence staining of NXF1 in MCF7 cells. Cells were fixed with 4% PFA, permeabilized with 0.1% Triton X-100 in PBS, blocked with 10% serum, and incubated with rabbit anti-Human NXF1 polyclonal antibody (dilution ratio 1:200) at 4 degree C overnight. Then cells were stained with the Alexa Fluor 488-conjugated Goat Anti-rabbit IgG secondary antibody (green). Positive staining was localized to Nucleus.



WB (Western Blot)

Anti-NXF1 rabbit polyclonal antibody at 1:500 dilutionLane A: HeLa Whole Cell LysateLane B:
NCI-H460 Whole Cell LysateLysates/proteins at 30 ug per lane.SecondaryGoat Anti-Rabbit
IgG (H+L)/HRP at 1/10000 dilution.Developed using the ECL technique.Performed under
reducing conditions.Predicted band size:70 kDaObserved band size:72 kDa

ADDITIONAL INFORMATION

Related Product Information for anti-NXF1 antibody	The Nxf1 protein is a major nuclear export receptor for the transport of mRNA, and it also is essential for the export of retroviral mRNAs with retained introns. In the latter case, it binds to RNA elements known as constitutive transport elements and functions in conjunction with a cofactor known as Nxt1. The NXF1 gene also regulates the expression of its intron-containing RNA through the use of a functional CTE within intron 10. mRNA containing this intron is exported to the cytoplasm. NXF1 is a modular protein constructed from four domains (RRM, LRR, NTF2-like, and UBA domains). NXF1 exports mRNA to the cytoplasm after recruitment to mRNA by specific adaptor proteins. In human cells, the mRNA export factor NXF1 resides in the nucleoplasm and at nuclear pore complexes. Karyopherin beta2 or transportin recognizes a proline-tyrosine nuclear localization signal (PY-NLS) in the N-terminal tail of NXF1 and imports it into the nucleus.
References	Zhang ZC, et al. (2011) Evolutionary development of redundant nuclear localization signals in the mrna export factor nxf1. Mol Biol Cell 22 (23): 4657-4668.Li Y, et al. (2016) An nxf1 mrna with a retained intron is expressed in hippocampal and neocortical neurons and is translated into a protein that functions as an nxf1 cofactor. Mol Biol Cell 27 (24): 3903-3912.Aibara S, et al. (2015) The principal mrna nuclear export factor nxf1:Nxt1 forms a symmetric binding platform that facilitates export of retroviral cte-rna. Nucleic Acids Res 43 (3): 1883-1893.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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