
Summary

Production Name	TAP Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	WB,ELISA
Reactivity	Human,Rat,Mouse

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

Gene Name	NXF1
Alternative Names	NXF1; TAP; Nuclear RNA export factor 1; Tip-associated protein; Tip-associating protein; mRNA export factor TAP
Gene ID	10482.0
SwissProt ID	Q9UBU9.The antiserum was produced against synthesized peptide derived from human NXF1. AA range:1-50

Application

Dilution Ratio	WB 1:500 - 1:2000. ELISA: 1:40000.
Molecular Weight	70kD

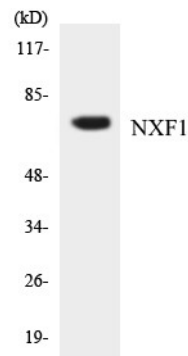
Background

This gene is one member of a family of nuclear RNA export factor genes. Common domain features of this family are a noncanonical RNP-type RNA-binding domain (RBD), 4 leucine-rich repeats (LRRs), a nuclear transport factor 2 (NTF2)-like domain that allows heterodimerization with NTF2-related export protein-1 (NXT1), and a ubiquitin-associated domain that mediates interactions with nucleoporins. The LRRs and NTF2-like domains are required for export activity. Alternative splicing seems to be a common mechanism in this gene family. The encoded protein of this gene shuttles between the nucleus and the cytoplasm and binds in vivo to poly(A)⁺ RNA. It is the vertebrate homologue of the yeast protein Mex67p. The encoded protein overcomes the mRNA export block caused by the presence of saturating amounts of CTE (constitutive transport element) RNA of type D retroviruses. Alternative splicing results in domain: The leucine-rich repeats and the NTF2-domain are essential for the export of mRNA from the nucleus., domain: The minimal CTE binding domain consists of an RNP-type RNA binding domain (RBD) and leucine-rich repeats., domain: The nucleoporin binding domain consists of a NTF2-like domain and a TAP domain (also called UBA-like domain). The NTF2 domain heterodimerizes with NXT1 and NXT2. The formation of NXF1/NXT1 heterodimers is required for NXF1-mediated nuclear mRNA export. The TAP domain mediates direct interactions with nucleoporin-FG-repeats and is necessary and sufficient for localization of NXF1 to the nuclear rim. The conserved loop 594-NWD-596 of the UBA domain has a critical role in the interaction with nucleoporins., function: Involved in the nuclear export of mRNA species bearing retroviral constitutive transport elements (CTE) and in the export of mRNA from the nucleus to the cytoplasm., miscellaneous: The RNA-binding domain is a non-canonical RNP-type domain., similarity: Belongs to the NXF family., similarity: Contains 1 NTF2 domain., similarity: Contains 1 RRM (RNA recognition motif) domain., similarity: Contains 1 TAP-C domain., similarity: Contains 4 LRR (leucine-rich) repeats., subcellular location: Localized predominantly in the nucleoplasm and at both the nucleoplasmic and cytoplasmic faces of the nuclear pore complex. Shuttles between the nucleus and the cytoplasm., subunit: Interacts with NXT1, NXT2, E1B-AP5, RAE1, THOC4 and with several nucleoporins. Is part of the exon junction complex (EJC) containing NCBP1, NCBP2, RNPS1, RBM8A, SRRM1, NXF1, RENT1, RENT2, RENT3A, RENT3B and THOC4. Found in a mRNA complex with RENT3A and RENT3B. Interacts with Saimiriine herpesvirus 2 TIP protein. Interacts with NUPL2., tissue specificity: Expressed ubiquitously.,

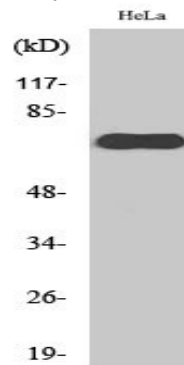
Research Area

Image Data

Product Name: TAP Rabbit Polyclonal Antibody
Catalog #: APRab18645



Western blot analysis of the lysates from HeLa cells using NXF1 antibody.



Western Blot analysis of various cells using TAP Polyclonal Antibody diluted at 1: 2000

Note

For research use only.