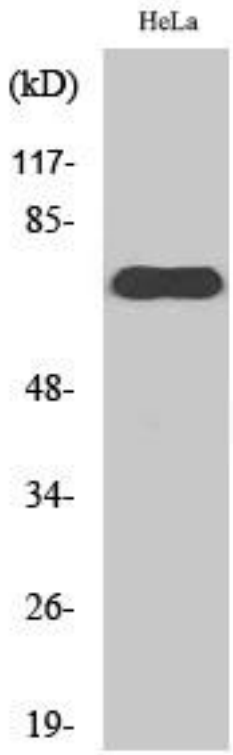
TAP Monoclonal Antibody

Catalog No	YP-mAb-02073
Isotype	IgG
Reactivity	Human;Rat;Mouse;
Applications	WB
Gene Name	NXF1
Protein Name	Nuclear RNA export factor 1
Immunogen	The antiserum was produced against synthesized peptide derived from human NXF1. AA range:1-50
Specificity	TAP Monoclonal Antibody detects endogenous levels of TAP protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	NXF1; TAP; Nuclear RNA export factor 1; Tip-associated protein; Tip-associating protein; mRNA export factor TAP
Observed Band	70kD
Cell Pathway	Nucleus . Nucleus, nucleoplasm . Nucleus speckle . Nucleus, nuclear pore complex . Nucleus envelope . Cytoplasm . Cytoplasm, Stress granule . 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. Travels to the cytoplasm as part of the exon junction complex (EJC) bound to mRNA. The association with the TREX complex seems to occur in regions surrounding nuclear speckles known as perispeckles (PubMed:23826332). Nucleus; nuclear rim (PubMed:25662211). .
Tissue Specificity	Expressed ubiquitously.
Function	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 c
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
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Western Blot analysis of various cells using TAP Monoclonal Antibody