

# **TAP Polyclonal Antibody**

Catalog # AP72724

## **Product Information**

Application WB
Primary Accession Q9UBU9
Reactivity Human
Host Rabbit
Clonality Polyclonal
Calculated MW 70182

#### **Additional Information**

**Gene ID** 10482

**Other Names** NXF1; TAP; Nuclear RNA export factor 1; Tip-associated protein;

Tip-associating protein; mRNA export factor TAP

**Dilution** WB~~Western Blot: 1/500 - 1/2000. ELISA: 1/40000. Not yet tested in other

applications.

Format Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium

azide.

Storage Conditions -20°C

#### **Protein Information**

Name NXF1

**Synonyms** TAP

**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 (TAP/NFX1 pathway) (PubMed:10924507). The NXF1-NXT1 heterodimer is involved in the export of HSP70 mRNA in

conjunction with ALYREF/THOC4 and THOC5 components of the TREX complex

(PubMed: 18364396, PubMed: 19165146, PubMed: 9660949).

ALYREF/THOC4-bound mRNA is thought to be transferred to the NXF1-NXT1

heterodimer for export (PubMed: 18364396, PubMed: 19165146,

PubMed: 9660949). Also involved in nuclear export of m6A-containing mRNAs:

interaction between SRSF3 and YTHDC1 facilitates m6A-containing mRNA-binding to both SRSF3 and NXF1, promoting mRNA nuclear export

(PubMed: 28984244).

**Cellular Location** Nucleus. Nucleus, nucleoplasm Nucleus speckle. Nucleus, nuclear pore

complex. Nucleus envelope. Cytoplasm. Cytoplasm, Stress granule.

Note=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)

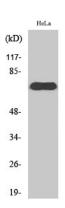
**Tissue Location** 

Expressed ubiquitously.

# **Background**

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 (TAP/NFX1 pathway) (PubMed:10924507). The NXF1-NXT1 heterodimer is involved in the export of HSP70 mRNA in conjunction with ALYREF/THOC4 and THOC5 components of the TREX complex (PubMed:18364396, PubMed:19165146, PubMed:9660949). ALYREF/THOC4-bound mRNA is thought to be transferred to the NXF1-NXT1 heterodimer for export (PubMed:18364396, PubMed:19165146, PubMed:9660949). Also involved in nuclear export of m6A-containing mRNAs: interaction between SRSF3 and YTHDC1 facilitates m6A-containing mRNA-binding to both SRSF3 and NXF1, promoting mRNA nuclear export (PubMed:28984244).

### **Images**



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

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.