

TAP (H-120): sc-25768

BACKGROUND

The constitutive transport element (CTE) of type D retroviruses serves as a signal of nuclear export for unspliced viral RNAs. TAP (tip-associating protein, also known as NXF1) mediates the export of CTE-containing simian type D retroviral RNAs through binding directly to the CTE. TAP is associated with a recognized mRNA export pathway and is a member of the multigene family of NXF proteins. NXF proteins belong to an evolutionarily conserved family of proteins, which are characterized by a leucine-rich-repeat domain (LRR) followed by a region known as the nuclear transport factor 2 (NTF2)-like domain.

REFERENCES

1. Tan, W., et al. 2000. The mRNA export in *Caenorhabditis elegans* is mediated by Ce-NXF-1, an ortholog of human TAP/NXF and *Saccharomyces cerevisiae* Mex67p. RNA 6: 1762-1772.
2. Herold, A., et al. 2000. TAP (NXF1) belongs to a multigene family of putative RNA export factors with a conserved modular architecture. Mol. Cell. Biol. 20: 8996-9008.

CHROMOSOMAL LOCATION

Genetic locus: NXF1 (human) mapping to 11q12.3; Nxf1 (mouse) mapping to 19 A.

SOURCE

TAP (H-120) is a rabbit polyclonal antibody raised against amino acids 1-120 of TAP of human origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

APPLICATIONS

TAP (H-120) is recommended for detection of TAP of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

TAP (H-120) is also recommended for detection of TAP in additional species, including canine.

Suitable for use as control antibody for TAP siRNA (h): sc-38142, TAP siRNA (m): sc-38143, TAP shRNA Plasmid (h): sc-38142-SH, TAP shRNA Plasmid (m): sc-38143-SH, TAP shRNA (h) Lentiviral Particles: sc-38142-V and TAP shRNA (m) Lentiviral Particles: sc-38143-V.

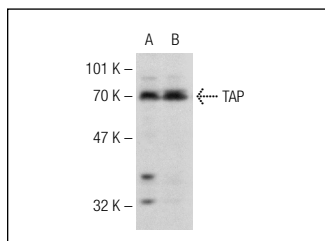
Molecular Weight of TAP: 73 kDa.

Positive Controls: CCRF-CEM nuclear extract: sc-2146, MOLT-4 nuclear extract: sc-2151 or K-562 nuclear extract: sc-2130.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



TAP (H-120): sc-25768. Western blot analysis of TAP expression in CCRF-CEM (A) and MOLT-4 (B) nuclear extracts.

SELECT PRODUCT CITATIONS

1. Bogolyubova, I., et al. 2009. Localization of poly(A)⁺ RNA and mRNA export factors in interchromatin granule clusters of two-cell mouse embryos. Cell Tissue Res. 338: 271-281.
2. Batalova, F.M., et al. 2010. Interchromatin granule clusters of the scorpionfly oocytes contain polyA⁺ RNA, heterogeneous ribonucleoproteins A/B and mRNA export factor NXF1. Cell Biol. Int. 34: 1163-1170.
3. Tsoi, H., et al. 2011. Perturbation of U2AF65/NXF1-mediated RNA nuclear export enhances RNA toxicity in polyQ diseases. Hum. Mol. Genet. 20: 3787-3797.
4. Malik, P., et al. 2012. Herpes simplex virus ICP27 protein directly interacts with the nuclear pore complex through Nup62, inhibiting host nucleocytoplasmic transport pathways. J. Biol. Chem. 287: 12277-12292.

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.


 MONOS
Satisfaction
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Try **TAP (53H8): sc-32319** or **TAP (G-12): sc-28377**, our highly recommended monoclonal alternatives to TAP (H-120).