Technical Data Sheet

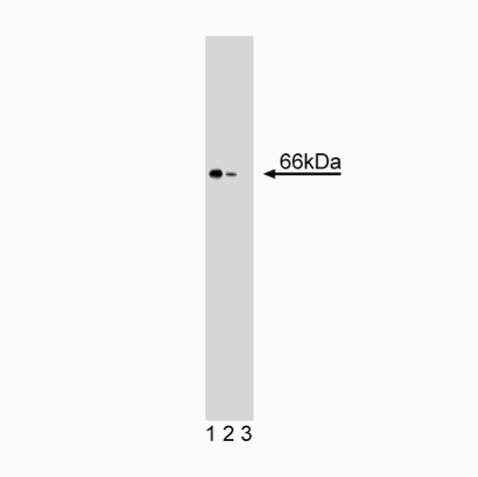
Purified Mouse Anti-TAP

Product Information

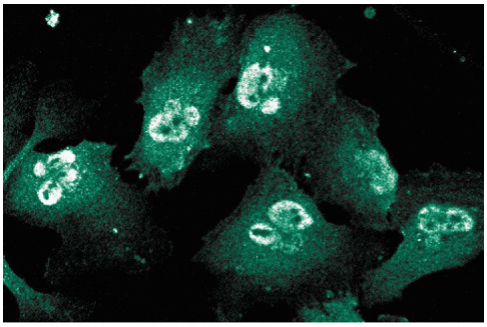
Material Number:	**611586**
Size:	50 µg
Concentration:	250 µg/ml
Clone:	31/TAP
Immunogen:	Human TAP aa. 488-596
Isotype:	Mouse IgG1
Reactivity:	QC Testing: Human Tested in Development: Rat
Target MW:	70 kda
Storage Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

Description

Nuclear export of cellular mRNAs is highly selective, wherein only fully processed RNAs are exported. Retroviral replication requires export of unspliced viral RNAs, which serve as templates for structural proteins and as genomic RNA for progeny virus. The export of unspliced viral RNA depends on the interaction of cis-acting RNA elements with cellular factors. In simian type D retroviruses, the cis-acting element is the constitutive transport element (CTE). CTE-dependent nuclear transport is mediated by the cellular TAP protein. TAP (**T**ip **a**ssociating **p**rotein) is the vertebrate homolog of the yeast nuclear export protein Mex67p. TAP is a nuclear protein that shuttles between the nucleus and cytoplasm. It contains an N-terminal nuclear localization and export region (NLS-NES), a central RNA binding domain (RBD), and a C-terminal portion that is required for nuclear localization and nuclear rim association. The first 372 aa of TAP are necessary and sufficient for binding and nuclear export of CTE-containing RNA. Thus, TAP contains a novel RNA-binding motif that recognizes CTE-containing RNA and interacts with other components of the nuclear transport machinery.



Western blot analysis of TAP on Jurkat lysate. *Lane 1: 1:250, lane 2: 1:500, lane 3: 1:1000 dilution of TAP.*



Human Endothelial

Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.
Store undiluted at -20°C.

Application Notes

Application

Western blot	Routinely Tested
Immunofluorescence	Tested During Development

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.

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3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

References

Bear J, Tan W, Zolotukhin AS, Tabernero C, Hudson EA, Felber BK. Identification of novel import and export signals of human TAP, the protein that binds to the constitutive transport element of the type D retrovirus mRNAs. *Mol Cell Biol.* 1999; 19(9):6306-6317.(Biology)

Braun IC, Rohrbach E, Schmitt C, Izaurralde E. TAP binds to the constitutive transport element (CTE) through a novel RNA-binding motif that is sufficient to promote CTE-dependent RNA export from the nucleus. *EMBO J.* 1999; 18(7):1953-1965.(Biology)

Yoon DW, Lee H, Seol W, DeMaria M, Rosenzweig M, Jung JU. Tap: a novel cellular protein that interacts with tip of herpesvirus saimiri and induces lymphocyte aggregation. *Immunity.* 1997; 6(5):571-582.(Biology)