

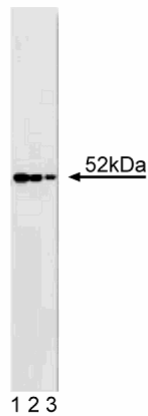
Technical Data Sheet

Purified Mouse Anti-TIP49b**Product Information**

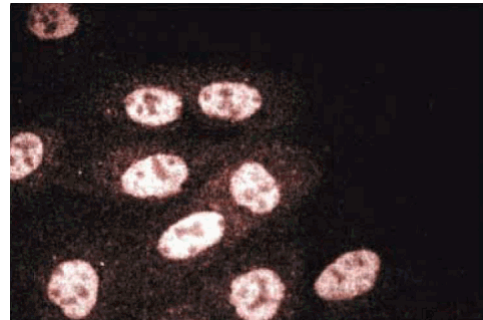
Material Number:	612482
Size:	50 µg
Concentration:	250 µg/ml
Clone:	42/TIP49b
Immunogen:	Human Reptin 52/TIF-496 aa. 180-228
Isotype:	Mouse IgG1
Reactivity:	QC Testing: Human Tested in Development: Dog, Rat, Mouse, Chicken
Target MW:	52 kDa
Storage Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

Description

Processes involving DNA transcription, replication and repair are necessary in maintaining normal cell function. For each of these processes, the double stranded NA must first be unwound. This is achieved in an ATP-dependent manner by enzymes termed DNA helicases. Reptin52/TIP49b is a DNA helicase that directly interacts with Pontin52/TIP49a. Reptin52/TIP49b and Pontin52/TIP49a belong to a family of highly conserved proteins that share homology with the bacterial protein RuvB, a helicase involved in double-strand break repair and homologous recombination. Both are TATA binding protein (TBP) interacting proteins that bind to β-Catenin and are among the 12 polypeptides that comprise the INO80 chromatin-remodeling complex. It has also been demonstrated that Reptin52/TIP49b and Pontin52/TIP49a can be found in a complex with the proto-ncogene c-myc. Reptin52/TIP49b and Pontin52/TIP49a have antagonistic roles as Reptin/TIP49b represses gene activation mediated by β-Catenin and c-myc, whereas Pontin52/TIP49a stimulates gene activation. Thus, Reptin52/TIP49b and Pontin52/TIP49a are transcriptional co-factors that work together to help control multiple pathways.



Western blot analysis of TIP49b on HeLa lysate. Lane 1: 1:500, lane 1: 1:1000, lane 3: 1:2000 dilution of TIP49b.



MDCK

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

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Product Notices

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

Bauer A, Chauvet S, Huber O. Pontin52 and reptin52 function as antagonistic regulators of beta-catenin signalling activity. *EMBO J.* 2000; 19(22):6121-6130. (Biology)

Cho SG, Bhoomik A, Broday L, Ivanov V, Rosenstein B, Ronai Z. TIP49b, a regulator of activating transcription factor 2 response to stress and DNA damage. *Mol Cell Biol.* 2001; 21(24):8398-8413. (Biology)

Kanemaki M, Kurokawa Y, Matsu-ura T. TIP49b, a new RuvB-like DNA helicase, is included in a complex together with another RuvB-like DNA helicase, TIP49a. *J Biol Chem.* 1999; 274(32):22437-22444. (Biology)