



Mouse anti-Human TIP49b monoclonal antibody, clone 53/UJQ50c (CABT-B9341)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Immunogen	Human Reptin 52/TIF-496 aa. 180-228
Isotype	IgG1
Source/Host	Mouse
Species Reactivity	Human, Mouse, Rat, Dog, Chicken
Clone	53/UJQ50c
Purification	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.
Conjugate	Unconjugated
Applications	WB; IF
Format	Liquid
Concentration	250 µg/ml
Size	50 µg
Buffer	Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.
Storage	Store undiluted at -20°C.

BACKGROUND

Introduction	Processes involving DNA transcription, replication and repair are necessary in maintaining
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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- oncogene 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.

Keywords

RUVBL2; RuvB-like AAA ATPase 2; RVB2; TIH2; ECP51; TIP48; CGI-46; INO80J; REPTIN; TIP49B; ruvB-like 2; ECP-51; TAP54-beta; reptin52 protein; repressing pontin 52; INO80 complex subunit J; RuvB (E coli homolog)-like 2; 48 kDa TBP-interacting protein; TIP60-associated protein 54-beta; 51 kDa erythrocyte cytosolic protein; erythrocyte cytosolic protein, 51-KD; 48 kDa TATA box-binding protein-interacting protein;

GENE INFORMATION

Entrez Gene ID

[10856](#)

UniProt ID

[Q9Y230](#)
