



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

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.

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](#)
