

Miz1/ZNF60 Polyclonal Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP54431

Specification

Miz1/ZNF60 Polyclonal Antibody - Product Information

Application	WB, IHC-P, IHC-F, IF, ICC, E
Primary Accession	Q13105
Reactivity	Rat, Pig, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	88 KDa
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human Miz1/ZNF60
Epitope Specificity	331-430/803
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Nucleus.
SIMILARITY	Belongs to the krueppel C2H2-type zinc-finger protein family. Contains 1 BTB (POZ) domain. Contains 13 C2H2-type zinc fingers.
SUBUNIT	Homooligomerizes (via the BTB/POZ domain), multimerization is required for DNA binding. Interacts (via the C-terminal zinc fingers) with GIF1; the interaction results in the recruitment of MYB to the CDKN1A/p21 and CDKN1B promoters and repression of transcription. Interacts with TRAF2, interfering with the binding of UBC13 to TRAF2, and inhibiting TRAF2 E3 ligase activity (By similarity). Interacts with MYC (via the C-terminal helix-loop-helix motif): the interaction inhibits ZBTB17 transactivation and growth arrest activities and renders it insoluble in the nucleus. Also interacts with HCFC1, MAGEA4 and TMPRSS11A.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Background Descriptions

The Myc family, including c-Myc-, N-Myc- and L-Myc, are nuclear proteins with relatively short half lives that contribute an important role in cellular processes such as proliferation, differentiation, apoptosis and transformation. The c-Myc protein activates transcription as part of a heteromeric complex with a number of interacting partners, including Max and Mxi 1; however the

transforming properties of the Myc proto-oncogene are believed to be associated with Myc-mediated transcriptional repression. A POZ domain Zn finger protein, designated Miz-1 for Myc-interacting Zn finger protein-1, is a specific target of Myc-induced gene repression. Miz-1 interacts with Myc, but not Max or other Myc partners, and binding of Myc to Miz-1 requires the helix-loop-helix domain of Myc and a short amphipathic helix located in the carboxy-terminus of Miz-1. Miz-1 associates with DNA elements on the adenovirus major late and cyclin D1 promoters and activates transcription of both promoters. Expression of Miz-1 induces potent growth arrest function, and this latency is reversed by the addition of Myc.

Miz1/ZNF60 Polyclonal Antibody - Additional Information

Gene ID 7709

Other Names

Zinc finger and BTB domain-containing protein 17, Myc-interacting zinc finger protein 1, Miz-1, Zinc finger protein 151, Zinc finger protein 60, ZBTB17, MIZ1, ZNF151, ZNF60

Dilution

WB~~1:1000
IHC-P~~N/A
IHC-F~~N/A
IF~~1:50~200
ICC~~N/A
E~~N/A

Storage

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Miz1/ZNF60 Polyclonal Antibody - Protein Information

Name ZBTB17

Synonyms MIZ1, ZNF151, ZNF60

Function

Transcription factor that can function as an activator or repressor depending on its binding partners, and by targeting negative regulators of cell cycle progression. Plays a critical role in early lymphocyte development, where it is essential to prevent apoptosis in lymphoid precursors, allowing them to survive in response to IL7 and undergo proper lineage commitment. Has been shown to bind to the promoters of adenovirus major late protein and cyclin D1 and activate transcription. Required for early embryonic development during gastrulation. Represses RB1 transcription; this repression can be blocked by interaction with ZBTB49 isoform 3/ZNF509S1 (PubMed:25245946).

Cellular Location

Nucleus

Tissue Location

Expressed in germinal center B-cells.

Miz1/ZNF60 Polyclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Miz1/ZNF60 Polyclonal Antibody - Images