

# **Human Miz-1/ZBTB17 Antibody**

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: AF3760

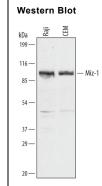
DESCRIPTION		
Species Reactivity	Human	
Specificity	Detects endogenous human Miz-1 in Western blots.	
Source	Polyclonal Goat IgG	
Purification	Antigen Affinity-purified	
Immunogen	E. coli-derived recombinant human Miz-1 Met1-Ala188 Accession # Q13105	
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.	

#### APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Western Blot	1 μg/mL	See Below

#### DATA



Detection of Human Miz-1/ZBTB17 by Western Blot. Western blot shows lysates of Raji human Burkitt's lymphoma cell line and CEM human T-lymphoblastoid cell line. PVDF membrane was probed with 1 µg/mL of Human Miz-1/ZBTB17 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF3760) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF017). A specific band was detected for Miz-1/ZBTB17 at approximately 100 kDa (as indicated). This experiment was conducted using Immunoblot Buffer Group 1.

# PREPARATION AND STORAGE

**Reconstitution** Reconstitute at 0.2 mg/mL in sterile PBS.

Shipping The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

\*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C

## Stability & Storage Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

### BACKGROUND

Miz-1 (Myc-interacting zinc finger protein 1; also ZBTB17) is an 88 kDa, DNA-binding protein that belongs to the Kruppel C2H2-type zinc finger protein family. Human Miz-1 is 803 amino acids (aa) in length, and contains a POZ domain (aa 1 - 104), two Myc-interaction segments (aa 269 - 308 & 637 - 718), and 12 C2H2-type zinc finger motifs (aa 306 - 637); also, there is one alternate splice form that shows an eight aa substitution for Thr769. Miz-1 induces cell arrest at G<sub>1</sub>, an effect mediated by its activation of the gene coding for p15<sup>INK4b</sup>. This effect is blocked by Myc, which displaces transcriptional coactivators bound to Miz-1. Notably, although the downregulation of Miz-1 may contribute to Myc-induced cell transformation, the deactivation of Miz-1 is absolutely essential for Myc-induced apoptosis. Over aa 1-188, human Miz-1 is 85% aa identical to mouse Miz-1.

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