

Store at
-20C
#14300**Miz-1 (D7E8B) Rabbit mAb**

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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W, IP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 95	Source/Isotype: Rabbit IgG	UniProt ID: #Q13105	Entrez-Gene Id: 7709
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Product Usage Information**Application**

Western Blotting
Immunoprecipitation

Dilution

1:1000
1:50

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

Miz-1 (D7E8B) Rabbit mAb recognizes endogenous levels of total Miz-1 protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro161 of human Miz-1 protein.

Background

Miz-1 (Zbtb17) is a poxvirus and zinc finger (POZ) transcription factor with an amino-terminal BTB/POZ domain and 13 carboxy-terminal zinc finger domains. Miz-1 plays a key role in cell cycle control through activation of the cyclin-dependent kinase inhibitors p15, INK4B, and p21 Waf1/Cip1 (1-4). The transcriptional activity of Miz-1 is repressed through direct interaction with Myc (1-4). In the presence of DNA damage, Myc is recruited to the p21 Waf1/Cip1 promoter by Miz-1 and blocks p53-mediated induction of p21 Waf1/Cip1, ultimately resulting in p53-mediated apoptosis rather than cell cycle arrest (4). Miz-1 also plays a role during lymphocyte development. In developing B and T cells, Miz-1 represses suppressor of cytokine signaling 1 (SOCS1) expression, which enables signaling through the IL-7 receptor and upregulation of the pro-survival protein Bcl-2 (5,6).

Background References

1. Peukert, K. et al. (1997) *EMBO J* 16, 5672-86.
2. Seoane, J. et al. (2001) *Nat Cell Biol* 3, 400-8.
3. Staller, P. et al. (2001) *Nat Cell Biol* 3, 392-9.
4. Seoane, J. et al. (2002) *Nature* 419, 729-34.
5. Kosan, C. et al. (2010) *Immunity* 33, 917-28.
6. Saba, I. et al. (2011) *Blood* 117, 3370-81.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween@ 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting **IP:** Immunoprecipitation

Cross-Reactivity Key

H: Human

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