

# ZMYM1 Antibody

Catalog # ASC11267

## Product Information

---

|                              |                                                                                                                                                                 |
|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Application</b>           | WB, E, IHC-P                                                                                                                                                    |
| <b>Primary Accession</b>     | <a href="#">Q5SVZ6</a>                                                                                                                                          |
| <b>Other Accession</b>       | <a href="#">NP_079048</a> , <a href="#">113205089</a>                                                                                                           |
| <b>Reactivity</b>            | Human, Mouse, Rat                                                                                                                                               |
| <b>Host</b>                  | Rabbit                                                                                                                                                          |
| <b>Clonality</b>             | Polyclonal                                                                                                                                                      |
| <b>Isotype</b>               | IgG                                                                                                                                                             |
| <b>Calculated MW</b>         | 128717                                                                                                                                                          |
| <b>Concentration (mg/ml)</b> | 1 mg/mL                                                                                                                                                         |
| <b>Conjugate</b>             | Unconjugated                                                                                                                                                    |
| <b>Application Notes</b>     | ZMYM1 antibody can be used for detection of ZMYM1 by Western blot at 1 $\mu$ g/mL. Antibody can also be used for immunohistochemistry starting at 5 $\mu$ g/mL. |

## Additional Information

---

|                                     |                                                                                                                                                                                                                                               |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene ID</b>                      | 79830                                                                                                                                                                                                                                         |
| <b>Other Names</b>                  | Zinc finger MYM-type protein 1, ZMYM1                                                                                                                                                                                                         |
| <b>Target/Specificity</b>           | ZMYM1; At least two isoforms of ZMYM1 are known to exist; this antibody will detect only the shorter isoform. ZMYM1 antibody is predicted to not cross-react with other ZMYM protein family members.                                          |
| <b>Reconstitution &amp; Storage</b> | ZMYM1 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures. |
| <b>Precautions</b>                  | ZMYM1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.                                                                                                                                              |

## Protein Information

---

|                          |          |
|--------------------------|----------|
| <b>Name</b>              | ZMYM1    |
| <b>Cellular Location</b> | Nucleus. |

## Background

---

ZMYM1 Antibody: Zinc-finger proteins contain DNA-binding domains characterized by the unique role of zinc and have a wide variety of functions such as transcriptional activation or repression. The protein folding and

the DNA binding ability are governed by the coordination of a zinc ion. As a member of the MYM (myeloproliferative and mental retardation) gene family, ZMYM1 is widely expressed in different tissues in eukaryotes under several forms derived by alternative splicing. While its function remains unknown, the related protein ZMYM2 has been shown to associate with and stabilize the LSD1-CoREST-HDAC1 (LCH) complex of chromatin through its MYM-type zinc fingers, thereby enhancing the transcriptional repression of several genes, suggesting that ZMYM1 may play a similar role.

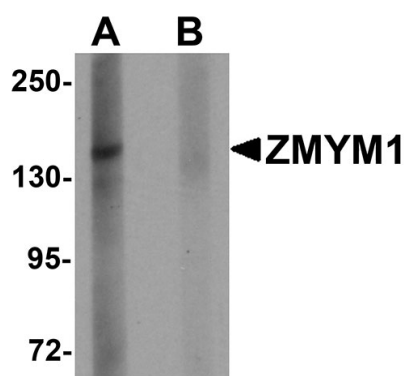
## References

---

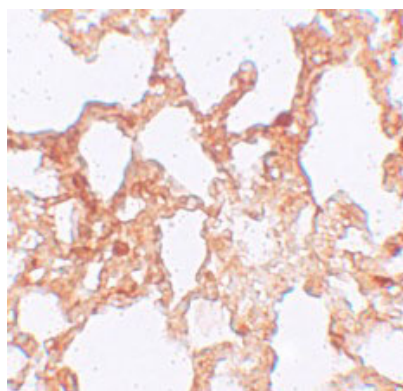
Rosenfeld R and Margalit H. Zinc fingers: conserved properties that can distinguish between spurious and actual DNA-binding motifs. *J. Biomol. Struct. Dyn.*1993; 11:557-70.  
Gregory SG, Barlow KF, McLay KE, et al. The DNA sequence and biological annotation of human chromosome 1. *Nature*2006; 441:315-21.  
Sohal J, Reiter A, Goldman JM, et al. Cloning of ZNF237, a novel member of the MYM gene family that maps to human chromosome 13q11→q12. *Cytogenet. Cell Genet.*2000; 89:24-8.  
Gocke CB and Yu H. ZNF198 stabilizes the LSD1-CoREST-HDAC1 complex on chromatin through its MYM-type zinc fingers. *PLoS One*2008; 3:e3255.

## Images

---



Western blot analysis of ZMYM1 in rat lung tissue lysate with ZMYM1 antibody at 1  $\mu$ g/mL in (A) the absence and (B) the presence of blocking peptide.



Immunohistochemistry of ZMYM1 in rat lung tissue with ZMYM1 antibody at 5  $\mu$ g/mL.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.