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# ZFP219 Antibody

Catalog # ASC11298

## Product Information

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| **Application** | WB, IF, E, IHC-P |
| **Primary Accession** | Q9P2Y4 |
| **Other Accession** | NP_001095142, 156415996 |
| **Reactivity** | Human, Mouse, Rat |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Isotype** | IgG |
| **Calculated MW** | 76877 |
| **Concentration (mg/ml)** | 1 mg/mL |
| **Conjugate** | Unconjugated |
| **Application Notes** | ZFP219 antibody can be used for detection of ZFP219 by Western blot at 1 - 2 g/mL. Antibody can also be used for immunohistochemistry starting at 5 g/mL. For immunofluorescence start at 20 g/mL. |

## Additional Information

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| **Gene ID** | 51222 |
| **Other Names** | Zinc finger protein 219, ZNF219 |
| **Target/Specificity** | ZNF219; At least two isoforms of ZFP219 are known to exist; this antibody will recognize both. |
| **Reconstitution & Storage** | ZFP219 antibody can be stored at 4℃ for three months and -20℃, 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. |
| **Precautions** | ZFP219 Antibody is for research use only and not for use in diagnostic or therapeutic procedures. |

## Protein Information

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| **Name** | ZNF219 |
| **Function** | Transcriptional regulator (PubMed: 14621294, PubMed:19549071). Recognizes and binds 2 copies of the core DNA sequence motif 5'-GGGGG- 3' (PubMed:14621294). Binds to the HMGN1 promoter and may repress HMGN1 expression (PubMed:14621294). Regulates SNCA expression in primary cortical neurons (PubMed:19549071). Binds to the COL2A1 promoter and activates COL2A1 expression, as part of a complex with SOX9 (By similarity). Plays a role in chondrocyte differentiation (By similarity). |
| **Cellular Location** | Nucleus |

**Tissue Location** Ubiquitous..

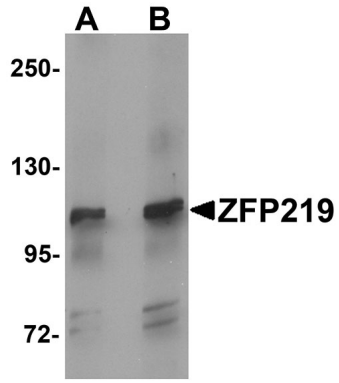
## Background

ZFP219 Antibody: ZFP219 is a developmentally regulated member of the Kruppel-like zinc finger gene family that is thought to function as a transcriptional repressor. Yeast two-hybrid screening showed association with Sox9, a transcription factor that is essential for chondrogenesis. ZFP219 is specifically expressed in the developing limb buds and colocalizes with Sox9 in the nucleus. Knockdown of ZFP219 expression decreased Sox9-induced mRNA expression, and a dominant-negative mutant of ZFP219 inhibited Bmp2-induced chondrocyte differentiation, suggesting that ZFP219 plays an important role as a transcriptional partner of Sox9 in the regulation of chondrocyte differentiation.

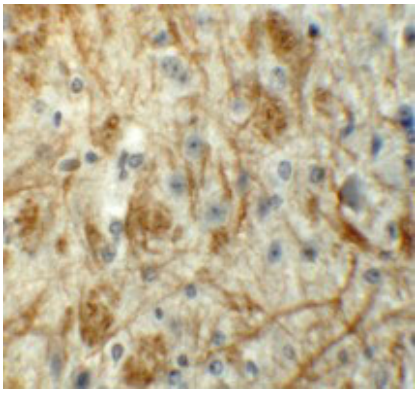
## References

Sakai T, Toyoda A, Hashimoto K, et al. Isolation and characterization of a novel zinc finger gene, ZNF219, and mapping to the human chromosome 14q11 region. DNA Res. 2000; 7:137-41.
Sakai T, Hino K, Wada S, et al. Identification of the DNA binding specificity of the human ZNF219 protein and its function as a transcriptional repressor. DNA Res. 2003; 10:155-65.
Takigawa Y, Hata K, Muramatsu S, et al. The transcription factor Znf219 regulates chondrocyte differentiation by assembling a transcription factory with Sox9. J. Cell Sci. 2010; 123:3780-8.

## Images

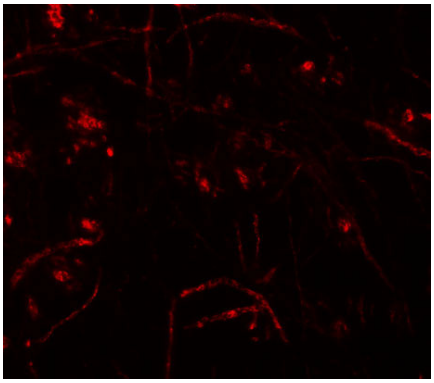



Western blot analysis of ZFP219 in mouse brain tissue lysate with ZFP219 antibody at (A) 1 and (B) 2 µg/mL.



Immunohistochemistry of ZFP219 in mouse brain tissue with ZFP219 antibody at 5 µg/mL.

Immunofluorescence of ZFP219 in mouse brain tissue with ZFP219 antibody at 20 µg/mL.



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