

ZFP57 Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP18299c**Specification**

ZFP57 Antibody (Center) Blocking Peptide - Product InformationPrimary Accession [Q9NU63](#)**ZFP57 Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 346171**Other Names**

Zinc finger protein 57 homolog, Zfp-57, Zinc finger protein 698, ZFP57, C6orf40, ZNF698

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

ZFP57 Antibody (Center) Blocking Peptide - Protein Information**Name** ZFP57 ([HGNC:18791](#))**Synonyms** C6orf40, ZNF698**Function**

Transcription regulator required to maintain maternal and paternal gene imprinting, a process by which gene expression is restricted in a parent of origin-specific manner by epigenetic modification of genomic DNA and chromatin, including DNA methylation. Acts by controlling DNA methylation during the earliest multicellular stages of development at multiple imprinting control regions (ICRs) (PubMed: [18622393](http://www.uniprot.org/citations/18622393), PubMed: [30602440](http://www.uniprot.org/citations/30602440)). Acts together with ZNF445, but ZNF445 seems to be the major factor in human early embryonic imprinting maintenance. In contrast, in mice, ZFP57 plays the predominant role in imprinting maintenance (PubMed: [30602440](http://www.uniprot.org/citations/30602440)). Required for the establishment of maternal methylation imprints at SNRPN locus. Acts as a transcriptional repressor in Schwann cells. Binds to a 5'-TGCCGC-3' consensus sequence and recognizes the methylated CpG within this element (By similarity).

Cellular Location

Nucleus. Note=Binds various differentially methylated regions (DMR)

ZFP57 Antibody (Center) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

ZFP57 Antibody (Center) Blocking Peptide - Images

ZFP57 Antibody (Center) Blocking Peptide - Background

The protein encoded by this gene is a zinc finger protein containing a KRAB domain. Studies in mouse suggest that this protein may function as a transcriptional repressor. Mutations in this gene have been associated with transient neonatal diabetes mellitus type 1 (TNDM1).

ZFP57 Antibody (Center) Blocking Peptide - References

Spengler, S., et al. Eur J Med Genet 52(6):415-416(2009) Barcellos, L.F., et al. PLoS Genet. 5 (10), E1000696 (2009) :Tse, K.P., et al. Am. J. Hum. Genet. 85(2):194-203(2009) Li, X., et al. Dev. Cell 15(4):547-557(2008) Mackay, D.J., et al. Nat. Genet. 40(8):949-951(2008)