

**EZH1 Antibody (N-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP2511d****Specification**

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**EZH1 Antibody (N-term) Blocking Peptide - Product Information**Primary Accession [O92800](#)**EZH1 Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 2145**Other Names**

Histone-lysine N-methyltransferase EZH1, ENX-2, Enhancer of zeste homolog 1, EZH1, KIAA0388

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP2511d](/product/products/AP2511d) was selected from the N-term region of human EZH1. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

**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.

**EZH1 Antibody (N-term) Blocking Peptide - Protein Information****Name** EZH1**Synonyms** KIAA0388**Function**

Polycomb group (PcG) protein. Catalytic subunit of the PRC2/EED-EZH1 complex, which methylates 'Lys-27' of histone H3, leading to transcriptional repression of the affected target gene. Able to mono-, di- and trimethylate 'Lys-27' of histone H3 to form H3K27me1, H3K27me2 and H3K27me3, respectively. Required for embryonic stem cell derivation and self-renewal, suggesting that it is involved in safeguarding embryonic stem cell identity. Compared to EZH2-containing complexes, it is less abundant in embryonic stem cells, has weak methyltransferase activity and plays a less critical role in forming H3K27me3, which is required for embryonic stem cell identity and proper differentiation.

**Cellular Location**

Nucleus. Note=Colocalizes with trimethylated 'Lys-27' of histone H3

### **EZH1 Antibody (N-term) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

### **EZH1 Antibody (N-term) Blocking Peptide - Images**

### **EZH1 Antibody (N-term) Blocking Peptide - Background**

EZH1 encodes a protein of 747 amino acids that displays 55% amino acid identity overall with the Drosophila homolog.<sup>1</sup> The strong sequence conservation suggested potential roles for EZH1 in human development as a transcriptional regulator and as a component of protein complexes that preserve heterochromatin stability. EZH1 is expressed as 2 major transcripts in all adult and fetal human tissues evaluated.. Analysis of an EZH1 cDNA revealed an unusual splicing event involving EZH1 and a tandemly linked gene GPR2 and suggested a potential mechanism for modifying the EZH1 protein in the conserved C-terminal domain. The GPR2 gene maps to 17q21.1-q21.3 in the vicinity of the BRCA1 gene.

### **EZH1 Antibody (N-term) Blocking Peptide - References**

Ogawa, M., et al., Biochim. Biophys. Acta 1395(2):151-158 (1998). Abel, K.J., et al., Genomics 37(2):161-171 (1996). Friedman, L.S., et al., Genomics 25(1):256-263 (1995). Osborne-Lawrence, S., et al., Genomics 25(1):248-255 (1995). Brody, L.C., et al., Genomics 25(1):238-247 (1995).