



## Polyclonal Antibody to EZH2 / KMT6 - Purified

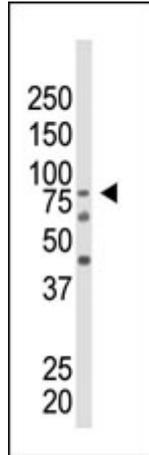
<b>Alternate names:</b>	ENX-1, Enhancer of zeste homolog 2, Histone-lysine N-methyltransferase EZH2, Lysine N-methyltransferase 6
<b>Catalog No.:</b>	AP12230PU-N
<b>Quantity:</b>	0.1 mg
<b>Concentration:</b>	0.25 mg/ml
<b>Background:</b>	EZH2, SUZ12, and EED form a complex that methylates nucleosomal histone H3 at Lys27. EZH2 contains a SET domain, a signature motif for all known histone lysine methyltransferases except the H3-K79 methyltransferase DOT1, and is therefore likely to be the catalytic subunit. Consequently, EZH2 is thought to regulate gene expression by controlling chromatin structure. Several lines of evidence suggested a critical role for the EZH2 protein during normal and perturbed development of the hematopoietic and central nervous systems. The EZH2 protein has been shown to associate with the VAV1 protooncprotein and with the XNP protein, the product of a gene associated with mental retardation. Additionally, due to mapping of EZH2 to the 7q35-q36 chromosomal region associated with myeloid disorders, this protein is suggested to participate in the genetic events triggering myeloid leukemia.
<b>Uniprot ID:</b>	<a href="#">Q15910</a>
<b>NCBI:</b>	<a href="#">9606</a>
<b>GeneID:</b>	<a href="#">2146</a>
<b>Host / Isotype:</b>	Rabbit / Ig
<b>Immunogen:</b>	This antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide selected from the center region of human EZH2.
<b>Format:</b>	<b>State:</b> Liquid purified Ig fraction. <b>Purification:</b> Protein G Chromatography, eluted with high and low pH buffers and neutralized immediately, followed by dialysis against PBS. <b>Buffer System:</b> PBS with 0.09% (W/V) Sodium Azide as preservative.
<b>Applications:</b>	ELISA: 1/1,000. Western Blot: 1/100-1/500. Immunohistochemistry: 1/50-1/100. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	This antibody is specific to EZH2 (Center). <b>Species:</b> Human and Mouse. Other species not tested.
<b>Add. Information:</b>	<b>Molecular weight:</b> 85363 Da

**Storage:** Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.

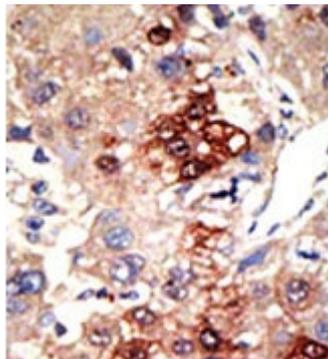
**Caution:** This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**General References:** 1. Zhou, Zongxiang, et al. *Cancer Res.* 2006 Aug 15;66(16):7889-7898. (Applications: IHC)  
2. Cardoso, C., et al., *Hum. Mol. Genet.* 7(4):679-684 (1998).  
3. Laible, G., et al., *EMBO J.* 16(11):3219-3232 (1997).  
4. Hobert, O., et al., *Mol. Cell. Biol.* 16(6):3066-3073 (1996).  
5. Chen, H., et al., *Genomics* 38(1):30-37 (1996).

**Pictures:**



The anti-EZH2 Ctr Pab (Cat.#AP12230PU-N) is used in Western blot to detect EZH2 in mouse kidney tissue lysate.



Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

**Recommended Control Peptides:** AP12230CP-N