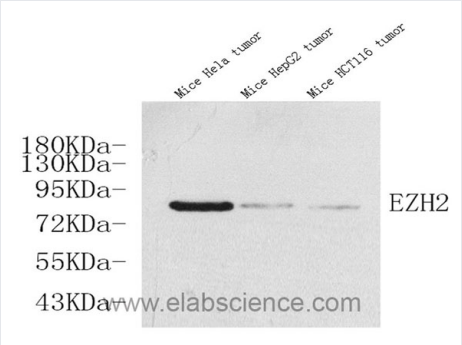
EZH2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	EZH2, Polyclonal Antibody
Full Product Name	EZH2 Polyclonal Antibody
Product Gene Name	anti-EZH2 antibody
Product Synonym Names	Enhancer of zeste 2; enhancer of zeste 2 polycomb repressive complex 2 subunit; Enhancer of zeste homolog 2 (Drosophila); Enhancer of zeste homolog 2; Enhancer of zeste; Drosophila; homolog 2; ENX 1; Enx 1h; ENX-1; ENX1; Enx1h; EZH 2; EZH1; EZH2; EZH2; EZH2b; Histone-lysine N-methyltransferase EZH2; KMT 6; KMT6; KMT6A; Lysine N-methyltransferase 6; MGC9169; WVS; WVS2
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	PBS with 0.02% sodium azide, 100 mug/ml BSA and 50% glycerol.
Purity/Purification	Affinity Purification
Concentration	0.54 mg/mL (lot specific)
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.
Molecular Weight	Calculated: 80-100kDa Observed: 80kDa
3D Structure	ModBase 3D Structure for Q15910
Immunogen	KLH conjugated synthetic peptide corresponding to Mouse EZH2
Conjugation	Unconjugated
Product Categories/Family for anti-EZH2 antibody	Cancer; Epigenetics and Nuclear Signaling
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-EZH2 antibody	Western Blot (WB)
Application Notes for anti-EZH2 antibody	WB: 1:500
Related Product Information for anti-EZH2 antibody	EZH2 (enhancer of zeste homologue 2, also known as KMT6) is a member of Polycomb group (PcG) family and encodes a histone methyl transferase that has an essential role in promoting histone H3 lysine 27 trimethylation (H3K27me3) and epigenetic gene silencing. EZH2 is important for cell proliferation and inhibition of cell differentiation, and is implicated in cancer progression. Overexpression of EZH2 is a marker of advanced and metastatic disease in many solid tumors, including prostate and breast cancer. This antibody detected EZH2 protein as a single band with a molecular weight (MW) of 91-100 kDa in multiple cell lines. The phosphorylation may result in the higher molecular weight (calculated MW as 80-86 kDa).
Other Notes	Small volumes of anti-EZH2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for EZH2 purchase	MBS2556152 is an antibody targeting EZH2. Also known as EZH2 Polyclonal Antibody. Reactive in Human, Mouse. Host: Rabbit.



Western Blot (WB) of anti-EZH2 antibody
Western Blot analysis of various samples using EZH2 Polyclonal Antibody at dilution of 1:500.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for EZH2. It may not necessarily be applicable to this product.

NCBI GI #	322506097
NCBI GeneID	2146
NCBI Accession #	NP_001190176.1
UniProt Primary Accession #	Q15910
UniProt Secondary Accession #	Q15755; Q75MG3; Q92857; Q96FI6; B2RAQ1; B3KS30; B7Z1D6; B7Z7L6
UniProt Related Accession #	Q15910
GenBank Nucleotide #	NM_001203247.1
NCBI Official Full Name	histone-lysine N-methyltransferase EZH2 isoform c
NCBI Official Synonym Full Names	enhancer of zeste 2 polycomb repressive complex 2 subunit
NCBI Official Symbol	EZH2
NCBI Official Synonym Symbols	WVS; ENX1; KMT6; WVS2; ENX-1; EZH2b; KMT6A
UniProt Protein Name	Histone-lysine N-methyltransferase EZH2
UniProt Synonym Protein Names	ENX-1; Enhancer of zeste homolog 2
Protein Family	Histone-lysine N-methyltransferase
UniProt Gene Name	EZH2
NCBI Protein Information	histone-lysine N-methyltransferase EZH2
NCBI Summary for EZH2	This gene encodes a member of the Polycomb-group (PcG) family. PcG family members form multimeric protein complexes, which are involved in maintaining the transcriptional repressive state of genes over successive cell generations. This protein associates with the embryonic ectoderm development protein, the VAV1 oncoprotein, and the X-linked nuclear protein. This protein may play a role in the hematopoietic and central nervous systems. Multiple alternatively splcied transcript variants encoding distinct isoforms have been identified for this gene. [provided by RefSeq, Feb 2011]

UniProt Comments for EZH2	Polycomb group (PcG) protein. Catalytic subunit of the PRC2/EED-EZH2 complex, which methylates 'Lys-9' (H3K9me) and 'Lys-27' (H3K27me) 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. Displays a preference for substrates with less methylation, loses activity when progressively more methyl groups are incorporated into H3K27, H3K27me0 > H3K27me1 > H3K27me2 (PubMed:22323599). Compared to EZH1-containing complexes, it is more abundant in embryonic stem cells and plays a major role in forming H3K27me3, which is required for embryonic stem cell identity and proper differentiation. The PRC2/EED-EZH2 complex may also serve as a recruiting platform for DNA methyltransferases, thereby linking two epigenetic repression systems. Genes repressed by the PRC2/EED-EZH2 complex include HOXC8, HOXA9, MYT1, CDKN2A and retinoic acid target genes. EZH2 can also methylate non-histone proteins such as the transcription factor GATA4 and the nuclear receptor RORA. Regulates the circadian clock via histone methylation at the promoter of the circadian genes. Essential for the CRY1/2-mediated repression of the transcriptional activation of PER1/2 by the CLOCK-ARNTL/BMAL1 heterodimer; involved in the di and trimethylation of 'Lys-27' of histone H3 on PER1/2 promoters which is necessary for the CRY1/2 proteins to inhibit transcription.
Research Articles on EZH2	**1.** we report that AMPK phosphorylates the histone methyltransferase EZH2 at T311 to disrupt the interaction between EZH2 and SUZ12, another core component of the polycomb repressive complex 2 (PRC2), leading to attenuated PRC2-dependent methylation of histone H3 at Lys27. As such, PRC2 target genes, many of which are known tumor suppressors, were upregulated upon T311-EZH2 phosphorylation.
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