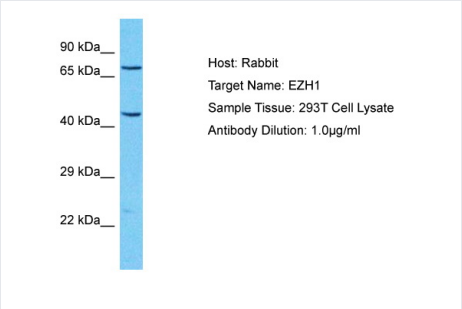
EZH1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	EZH1, Polyclonal Antibody
Full Product Name	EZH1 Antibody - C-terminal region
Product Gene Name	anti-EZH1 antibody
Product Synonym Gene Name	EZH1; KIAA0388;
Immunogen Sequence	Synthetic peptide located within the following region: DVAGWGTFIK ESVQKNEFIS EYCGELISQD EADRRGKVYD KYMSSFLFNL
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Purity/Purification	Affinity Purified
Preparation and Storage	For short term use, store at 2-8 degree C up to 1 week. For long term storage, store at -20 degree C in small aliquots to prevent freeze-thaw cycles.
Antibody/Peptide Pairs	EZH1 peptide (MBS3244033) is used for blocking the activity of EZH1 antibody (MBS3219141)
Molecular Weight	74kDa
OMIM	601674
3D Structure	ModBase 3D Structure for Q92800
Immunogen	The immunogen is a synthetic peptide directed towards the C-terminal region of Human EZH1
Product Categories/Family for anti-EZH1 antibody	Polyclonal; Transcription Factor; Cell Biology; Chromatin & Nuclear Signaling; Developmental Biology; Epigenetics
Applications Tested/Suitable for anti-EZH1 antibody	Western Blot (WB)
Related Product Information for anti-EZH1 antibody	This is a rabbit polyclonal antibody against EZH1. It was validated on Western Blot Target Description: EZH1 is a component of a noncanonical Polycomb repressive complex-2 (PRC2) that mediates methylation of histone H3 lys27 (H3K27) and functions in the maintenance of embryonic stem cell pluripotency and plasticity.
Other Notes	Small volumes of anti-EZH1 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 EZH1 purchase	MBS3219141 is an antibody targeting EZH1. Also known as EZH1 Antibody - C-terminal region. Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-EZH1 antibody
Host: RabbitTarget Name: EZH1Sample Type: 293T Whole Cell lysatesAntibody Dilution: 1.0ug/ml

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for EZH1. It may not necessarily be applicable to this product.

NCBI GI #	19923202
NCBI GeneID	2145
NCBI Accession #	NP_001982.2
UniProt Primary Accession #	Q92800
UniProt Related Accession #	Q92800
GenBank Nucleotide #	NM_001991.5
NCBI Official Full Name	histone-lysine N-methyltransferase EZH1 isoform 1
NCBI Official Synonym Full Names	enhancer of zeste 1 polycomb repressive complex 2 subunit
NCBI Official Symbol	EZH1
NCBI Official Synonym Symbols	KMT6B
UniProt Protein Name	Histone-lysine N-methyltransferase EZH1
UniProt Synonym Protein Names	ENX-2; Enhancer of zeste homolog 1
Protein Family	Histone-lysine N-methyltransferase
UniProt Gene Name	EZH1
UniProt Synonym Gene Names	KIAA0388
UniProt Entry Name	EZH1_HUMAN
NCBI Protein Information	histone-lysine N-methyltransferase EZH1
NCBI Summary for EZH1	EZH1 is a component of a noncanonical Polycomb repressive complex-2 (PRC2) that mediates methylation of histone H3 (see MIM 602812) lys27 (H3K27) and functions in the maintenance of embryonic stem cell pluripotency and plasticity (Shen et al., 2008 [PubMed 19026780]).[supplied by OMIM, Mar 2009]

UniProt Comments for EZH1	EZH1: 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 EZH1-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. Belongs to the histone-lysine methyltransferase family. EZ subfamily. 5 isoforms of the human protein are produced by alternative splicing. Protein type: EC 2.1.1.43; Methyltransferase; Methyltransferase, protein lysine Chromosomal Location of Human Ortholog: 17q21.1-q21.3 Cellular Component: nucleoplasm; ESC/E(Z) complex Molecular Function: chromatin binding; histone lysine N-methyltransferase activity (H3-K27 specific) Biological Process: anatomical structure morphogenesis; transcription, DNA-dependent; negative regulation of transcription from RNA polymerase II promoter
Research Articles on EZH1	**1.** identification of EZH1 as a repressor of haematopoietic multipotency in the early mammalian embryo
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