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EZH1 Rabbit pAb

Catalog # AP99248

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q92800
Other Accession	Q92800
Reactivity	Rat, Human, Mouse
Predicted	Pig, Rabbit, Chicken, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	85271
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human EZH1
Epitope Specificity	471-510/747
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the histone-lysine methyltransferase family. EZ subfamily.Contains 1 CXC domain. Contains 1 SET domain.
SUBUNIT	Component of the PRC2/EED-EZH1 complex, which includes EED, EZH1, SUZ12, RBBP4 and AEBP2. The PRC2/EED-EZH1 is less abundant than the PRC2/EED-EZH2 complex, has weak methyltransferase activity and compacts chromatin in the absence of the methyltransferase cofactor S-adenosyl-L-methionine (SAM).
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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. Sequence similarities Belongs to the histone-lysine methyltransferase family. EZ subfamily. Contains 1 SET domain.

Additional Information

Gene ID	2145
Other Names	KMT6B; ENX-2; EZH1_HUMAN; EZH1; Enhancer of zeste homolog 1; 2.1.1.356; KIAA0388; EZH1_MOUSE; Enx2; enhancer of zeste 1 polycomb repressive complex 2 subunit; enhancer of zeste (Drosophila) homolog 1; enhancer of zeste homolog 1 (Drosophila)

Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,Flow-Cyt=2ug/Test
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

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

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.