Datasheet for ABIN7155480

anti-EZH2 antibody (AA 1-250)

1 Image

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Overview

Quantity:	100 µL
Target:	EZH2
Binding Specificity:	AA 1-250
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This EZH2 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA

Product Details

Immunogen:	Recombinant Human Histone-lysine N-methyltransferase EZH2 protein (1-250AA)
Isotype:	IgG
Cross-Reactivity:	Human, Mouse
Purification:	Antigen Affinity Purified

Target Details

Target:	EZH2
Alternative Name:	EZH2 (EZH2 Products)
Background:	Background: 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

Target Details

	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. Compared to EZH2-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. Aliases: Enhancer of zeste 2 antibody, enhancer of zeste 2 polycomb repressive complex 2 subunit antibody, Enhancer of zeste homolog 2 (Drosophila) antibody, Enhancer of zeste homolog 2 antibody, Enhancer of zeste, Drosophila, homolog 2 antibody, ENX 1 antibody, Enx 1h antibody, ENX-1 antibody, ENX1 antibody, Enx1h antibody, EZH 2 antibody, EZH1 antibody, EZH2 antibody, EZH2_HUMAN antibody, EZH2b antibody, Histone-lysine N-methyltransferase EZH2 antibody, KMT 6 antibody, KMT6 antibody, KMT6A antibody, Lysine N-methyltransferase 6 antibody, MGC9169 antibody, WVS antibody, WVS2 antibody
UniProt:	Q15910
Pathways:	Retinoic Acid Receptor Signaling Pathway, Regulation of Muscle Cell Differentiation

Application Details

Application Notes:	Recommended dilution: WB:1:500-1:5000,
Restrictions:	For Research Use only

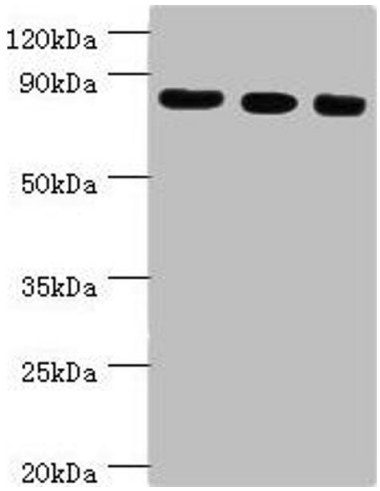
Handling

Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide, 50 % glycerol, pH 7.3.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling

Storage:	-20 °C,-80 °C
Storage Comment:	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.

Images



Western Blotting

Image 1. Western blot All lanes: Histone-lysine N-methyltransferase EZH2 antibody at 12 µg/mL Lane 1: A431 whole cell lysate Lane 2: Jurkat whole cell lysate Lane 3: Mouse kidney tissue Secondary Goat polyclonal to rabbit IgG at 1/10000 dilution Predicted band size: 86, 87, 82, 85, 80 kDa Observed band size: 86 kDa